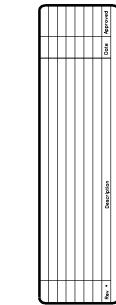
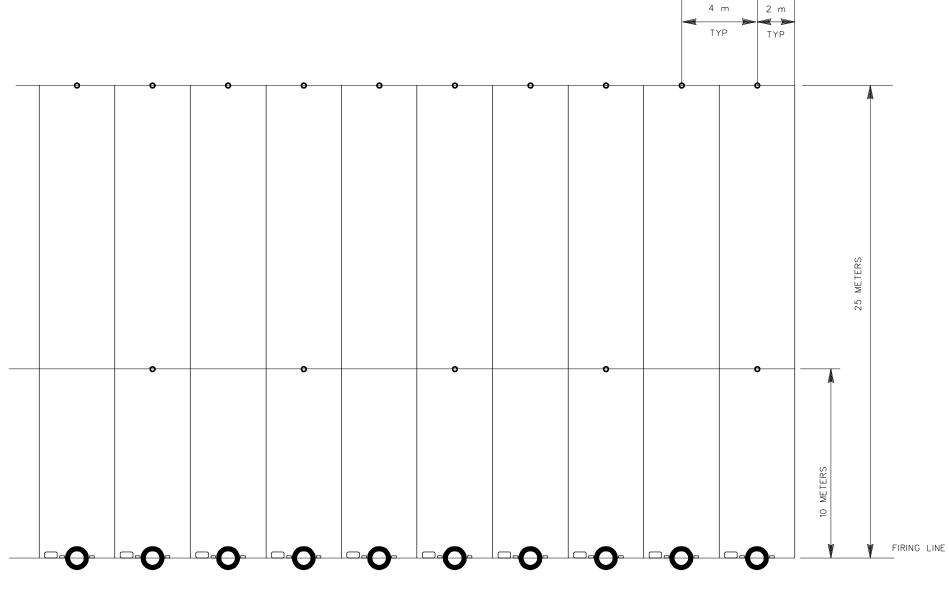
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Sheet reference number:

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FCC• 17801 25 M ZERO RANGE



LEGEND

FOXHOLE FIRING POINT

V-NOTCH RIFLE RESTING PEG

SANDBAGS

TARGET BOOT

NOTES:

10 LANES SHOWN OF 32 LANE RANGE

FIRING POINT AND TARGET ARE ON A FLAT PLANE +/- 1°

300m 5m 175m 75m 7m

LEGEND

STATIONARY INFANTRY
TARGET EMPLACEMENT

• FOXHOLE

NOTE:

16 LANES OF A 32 LANE RANGE SHOWN

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SUPPORT CENTER, HUNTSVILLE
HUNTSVILLE, ALABAMA
Reviewed by:
Submitted by:

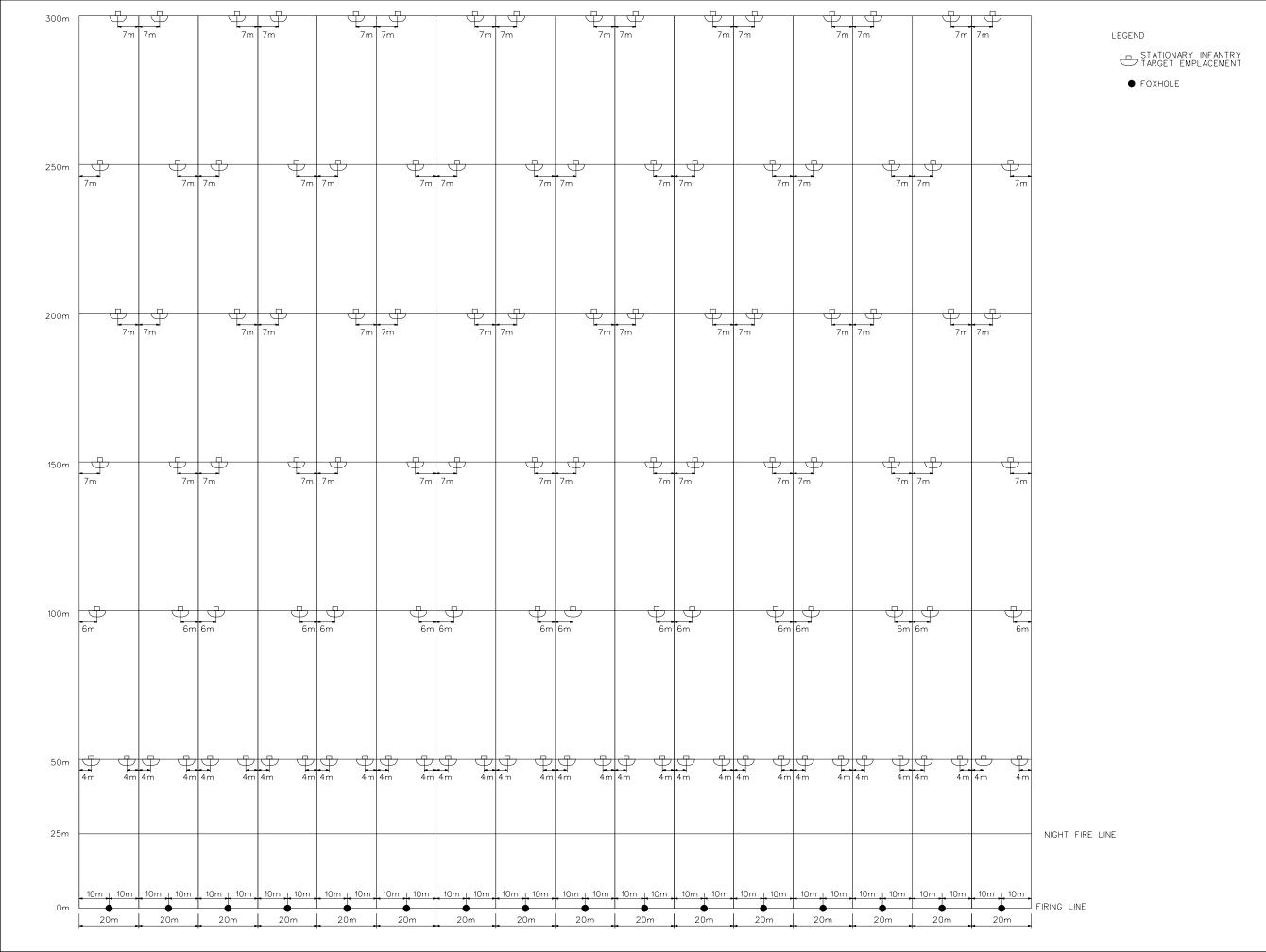
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300m 7m 7m 7m 7m 7m 7m 250m 200m 7m 175m 7m 150m 6m 6m 100m 75m 50m 25m NIGHT FIRE LINE FIRE LINE

ORT CENTER, HUNTSVILLE, ALABAMA
HUNTSVILLE, ALABAMA
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LEGEND

STATIONARY INFANTRY
TARGET EMPLACEMENT

• FOXHOLE

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NNGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL

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NOTE:

SEE FCC 17833, DETAIL 1, FOR SIT

CONFIGURATION OPTIONS AT 800m

LEGEND:

SIT (STATIONARY INFANTRY TARGET)

MIT (MOVING INFANTRY TARGET)

FOXHOLE

SINGLE LANE OF A COMBAT PISTOL
QUALIFICATION COURSE
SEE FCC 17822 FOR LAYOUT INFORMATION

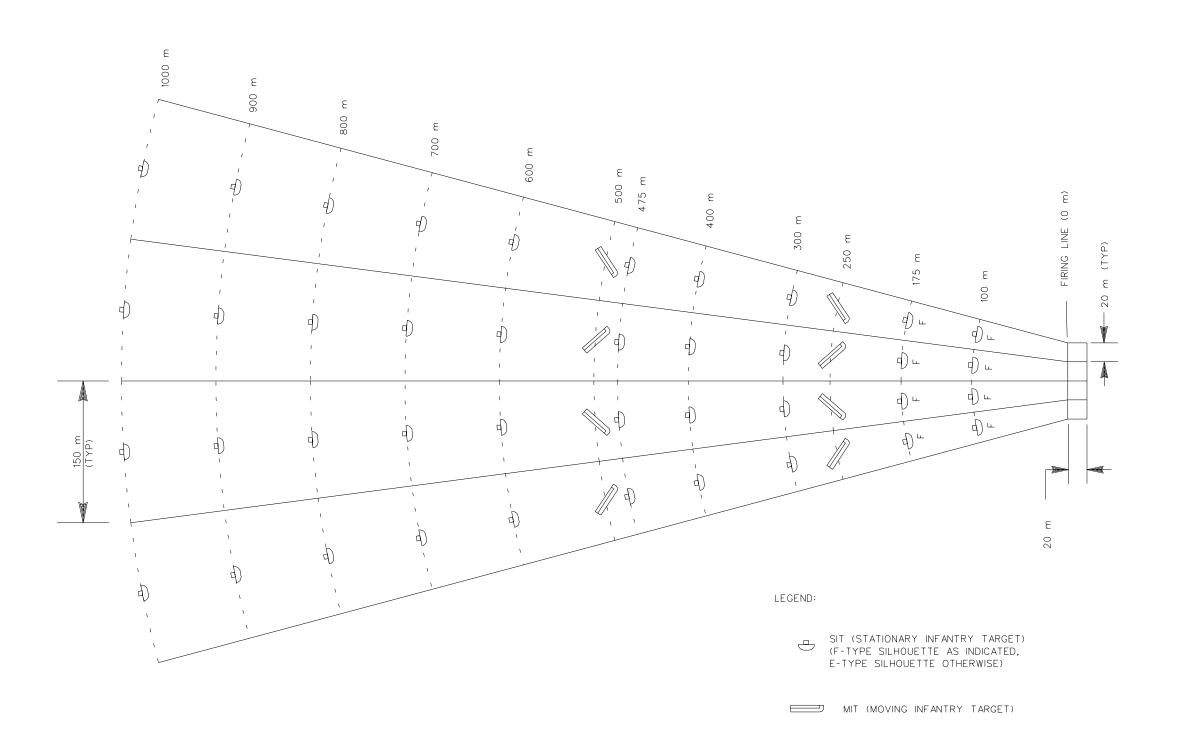
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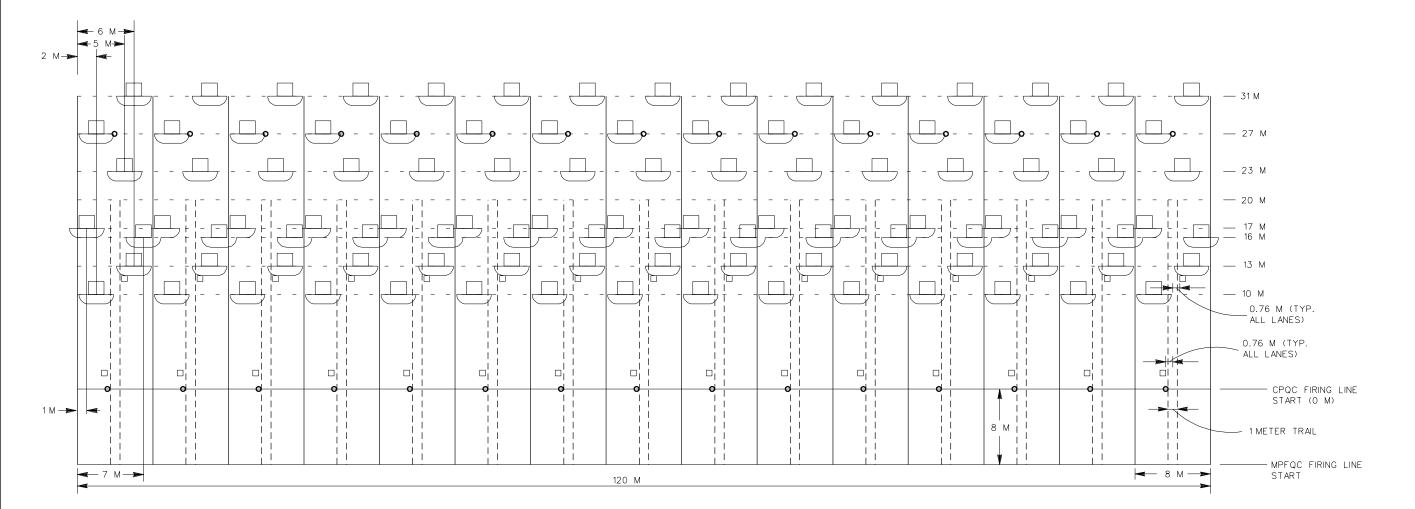
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LEGEND

- PORTABLE BARRICADE (0.61M WIDE X 1.98M HIGH AT 10M FROM MPFQC FIRING LINE START; 0.61M WIDE X 0.76M HIGH AT 20M FROM MPFQC FIRING LINE START)
- BOOT (HOLDING BOOT FOR MAGAZINE TABLE STAND LOCATED AT CPQC FIRING LINE START; TARGET BOOT FOR MPFQC LOCATED 35M FROM MPFQC FIRING LINE START)



NOTES:

- 1. TARGET LAYOUTS IN EACH LANE ARE IDENTICAL.
- 2. SUPPORT FACILITIES MUST BE SITE ADAPTED TO MEET LOCAL REQUIREMENTS.
- 3. THE MILITARY POLICE FIREARMS QUALIFICATION COURSE IS SHOWN OVERLAYED ON THE COMBAT PISTOL QUALIFICATION COURSE.

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E AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL



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MOVING	INFANTRY

FIRING LINE

60m

STATIONARY INFANTRY TARGET (SIT)

LEGEND

1700m

120m

1500m

1600m

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0

1400m

1300m

1200m

0

1100m

1000m

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900m

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800m

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600m

500m

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400m

300m

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200m

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100m

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\wedge	MOVING	INF ANTF
0	TARGET	(MIT)

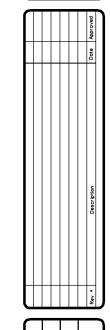
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RANGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL

FCC• 17829 HEAVY SNIPER RANGE



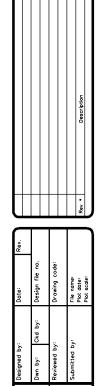


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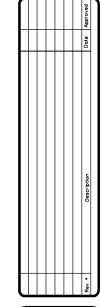
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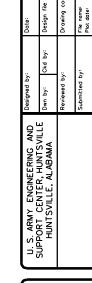
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RANGE AND TRANNING LAND PROGRAM
STANDARD DESIGN MANUAL
FCC• 17834
40mm (GRENADE) MACHINE
GUN QUALIFICATION RANGE

Sheet reference number:
M19-1

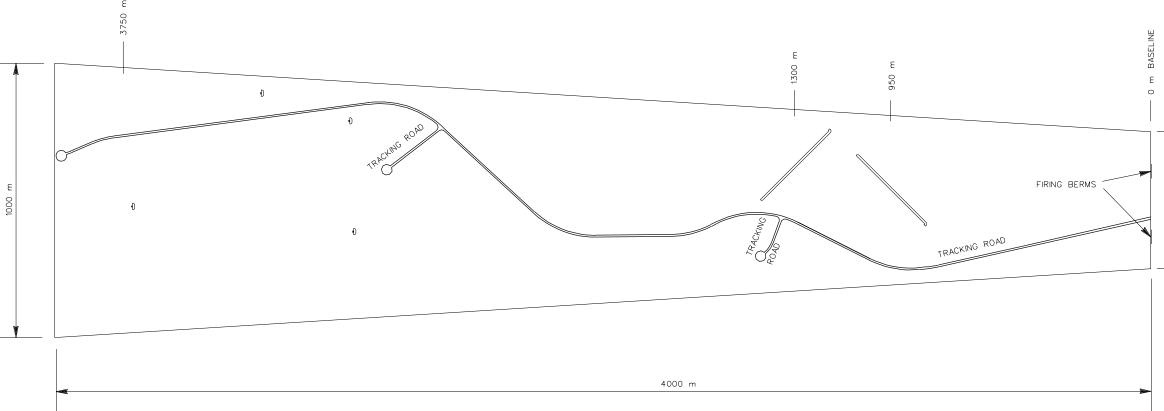


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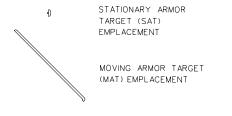
LEGEND



NOTES:

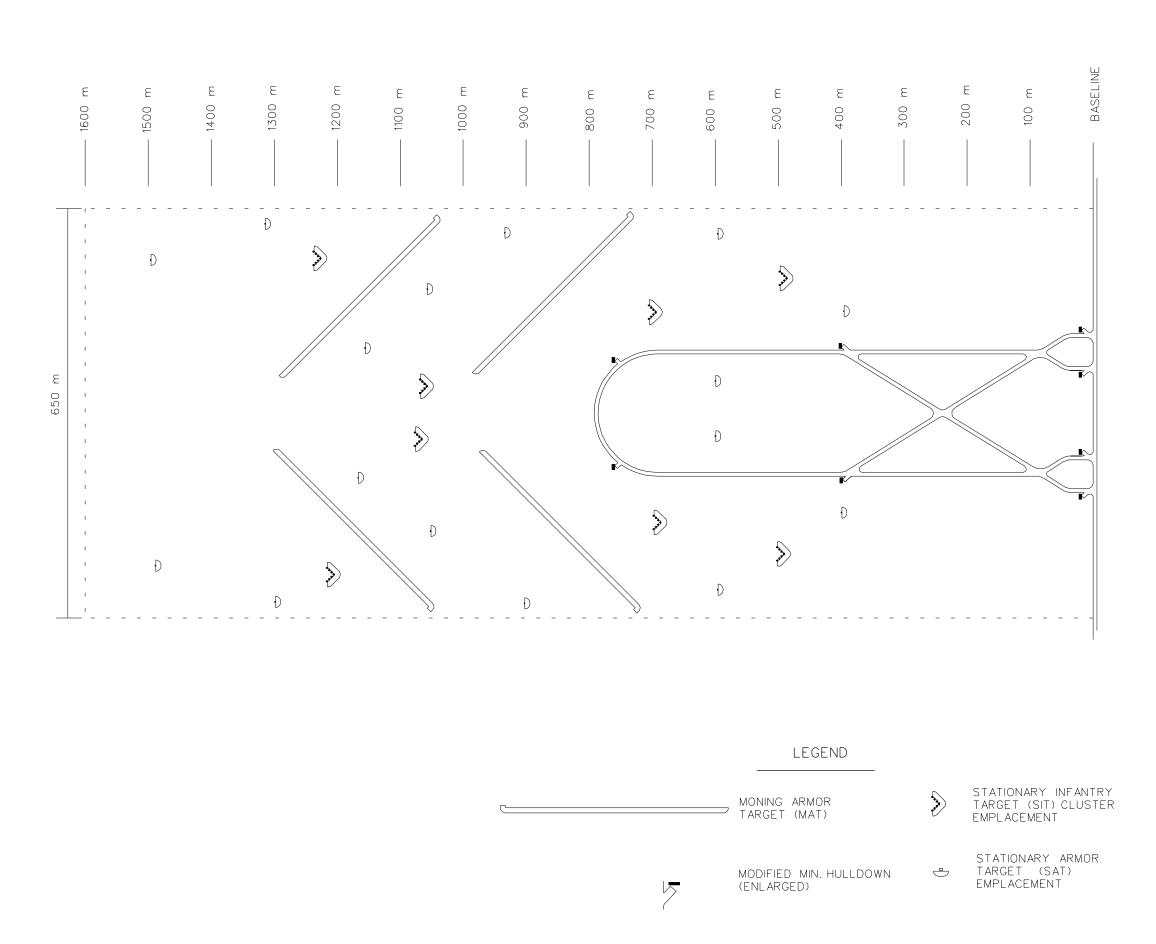
- 1. ALL AMTC AND SAT EMPLACEMENTS ARE DESIGNED FOR TANK AND BFV GUNNERY ONLY.
- 2. MOVING ARMOR TARGET EMPLACEMENTS ARE 350 METERS LONG.
- 3. SUPPORT FACILITIES TO BE SITED AT LOCATIONS SUITABLE TO RANGE OPERATIONS.

- 4. LOCATION OF THE BORESIGHT MUST BE COORDINATED WITH THE TRAINER.
- 5. GUNNERY TASKS REQUIRING THE USAGE OF DUD-PRODUCING AMMUNITION CANNOT BE FIRED ON THE RANGE PROPER. PROVISIONS FOR THESE TASKS MUST BE MADE IN IMPACT AREAS ADJACENT TO RANGE.



TURNAROUND







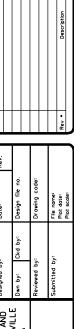
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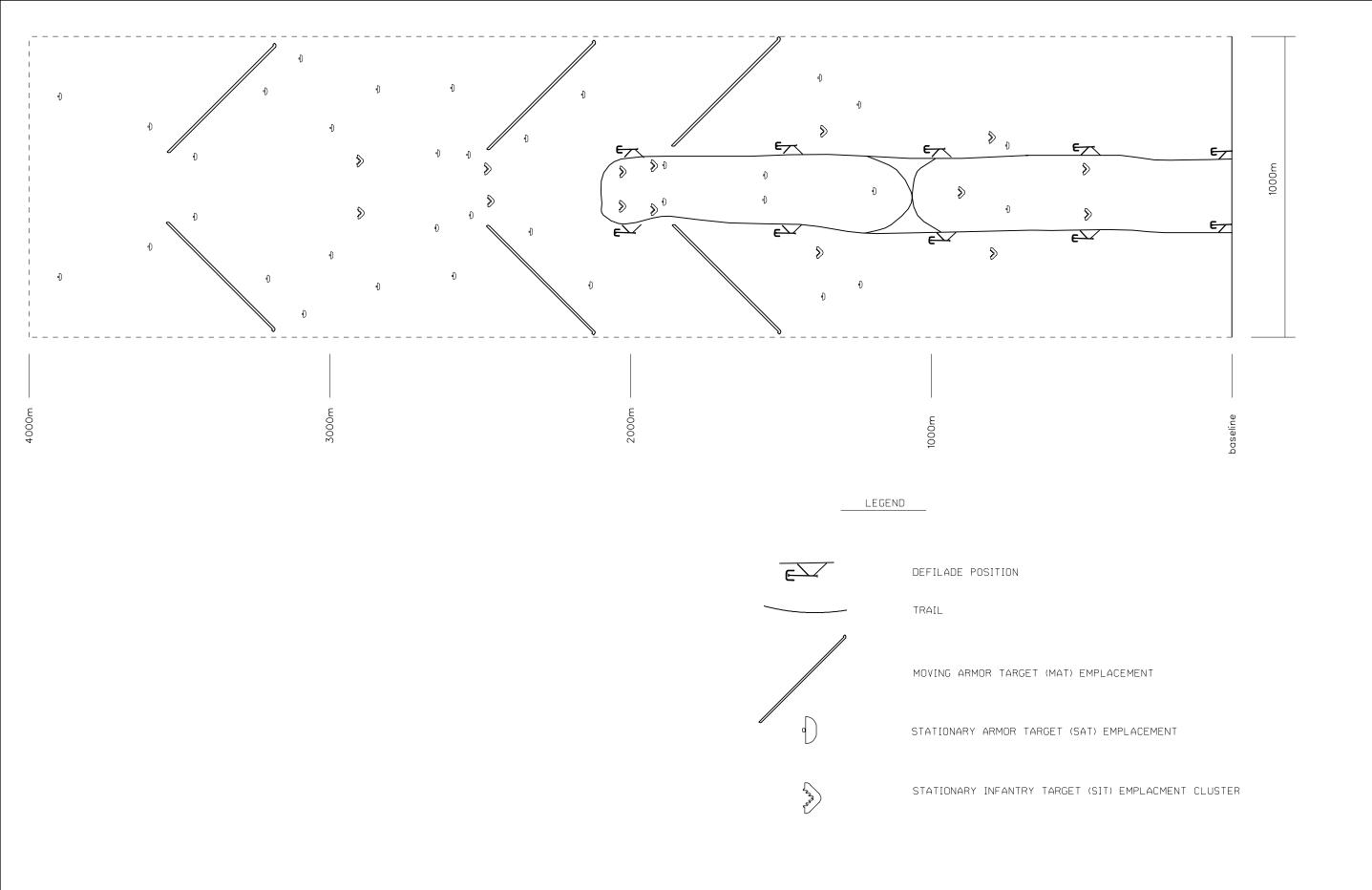
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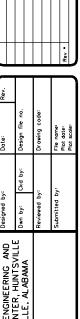


RANGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL

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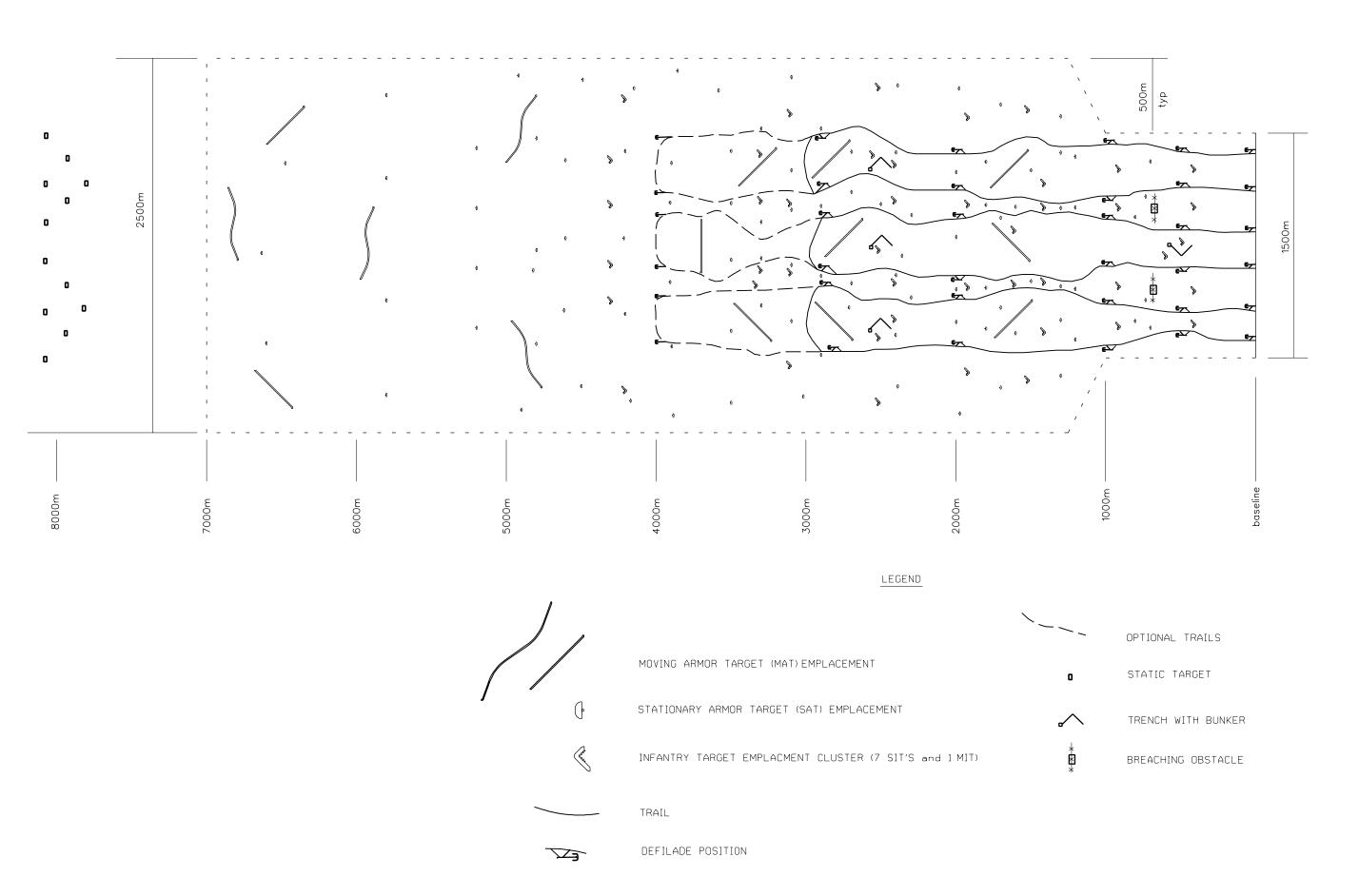
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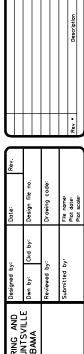
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E AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL

FCC• 17859 DIGITAL MULTIPURPOSE TRAINING RANGE



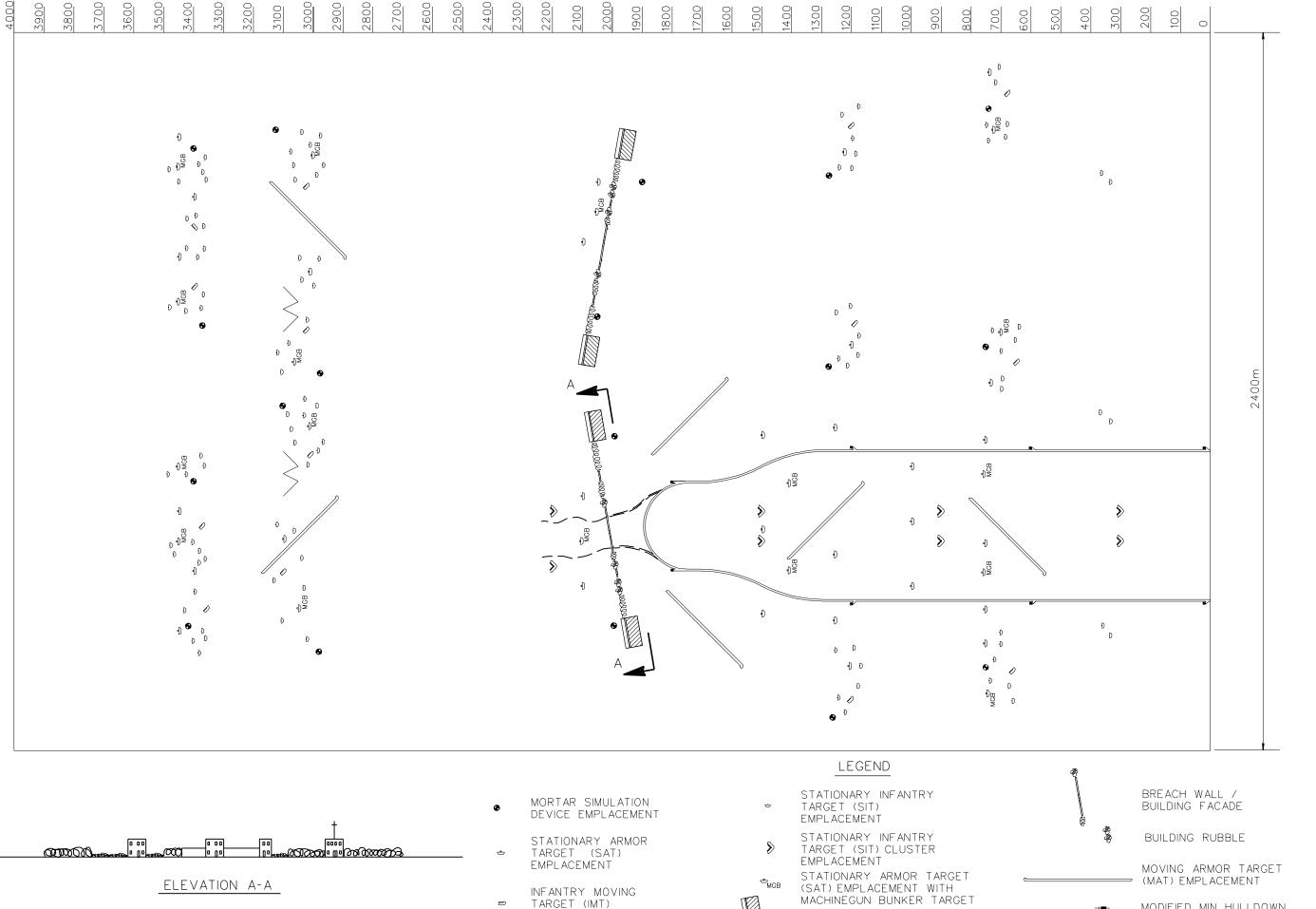


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Sheet	T TOO
STANDARD DESK	10000



EMPLACEMENT

NOTE: 12 STATIONARY INFANTRY TARGETS ARE

INCORPORATED INTO THE BUILDING FACADES

Sheet reference number: BAX-1

E AND TRAINING LAND PRC STANDARD DESIGN MANUAL

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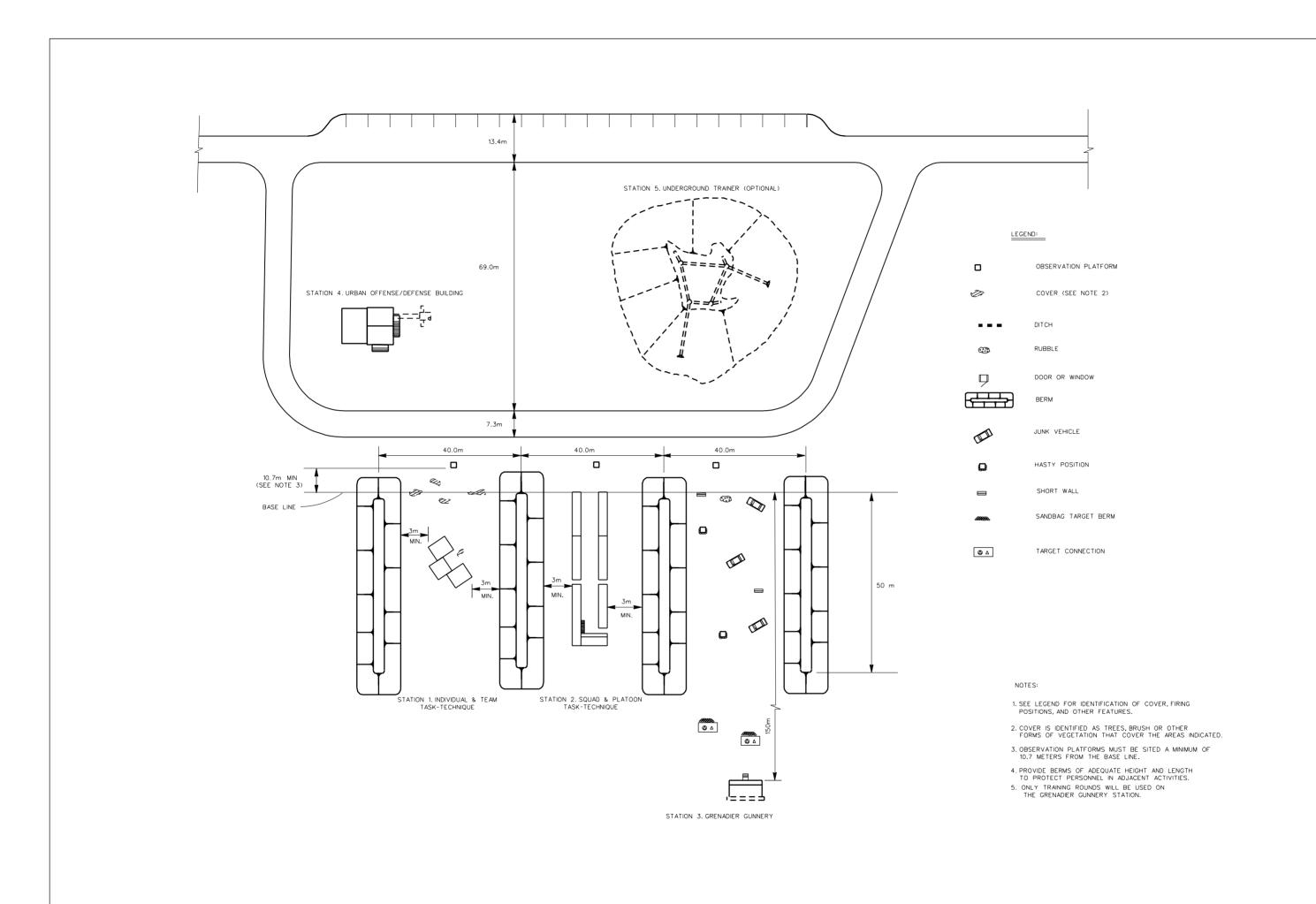
MACHINEGUN BUNKER TARGET

MINE FIELD/TANK DITCH

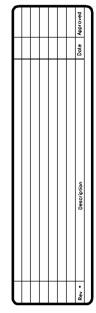
CONCERTINA WIRE

MODIFIED MIN. HULLDOWN (ENLARGED)

TRAIL



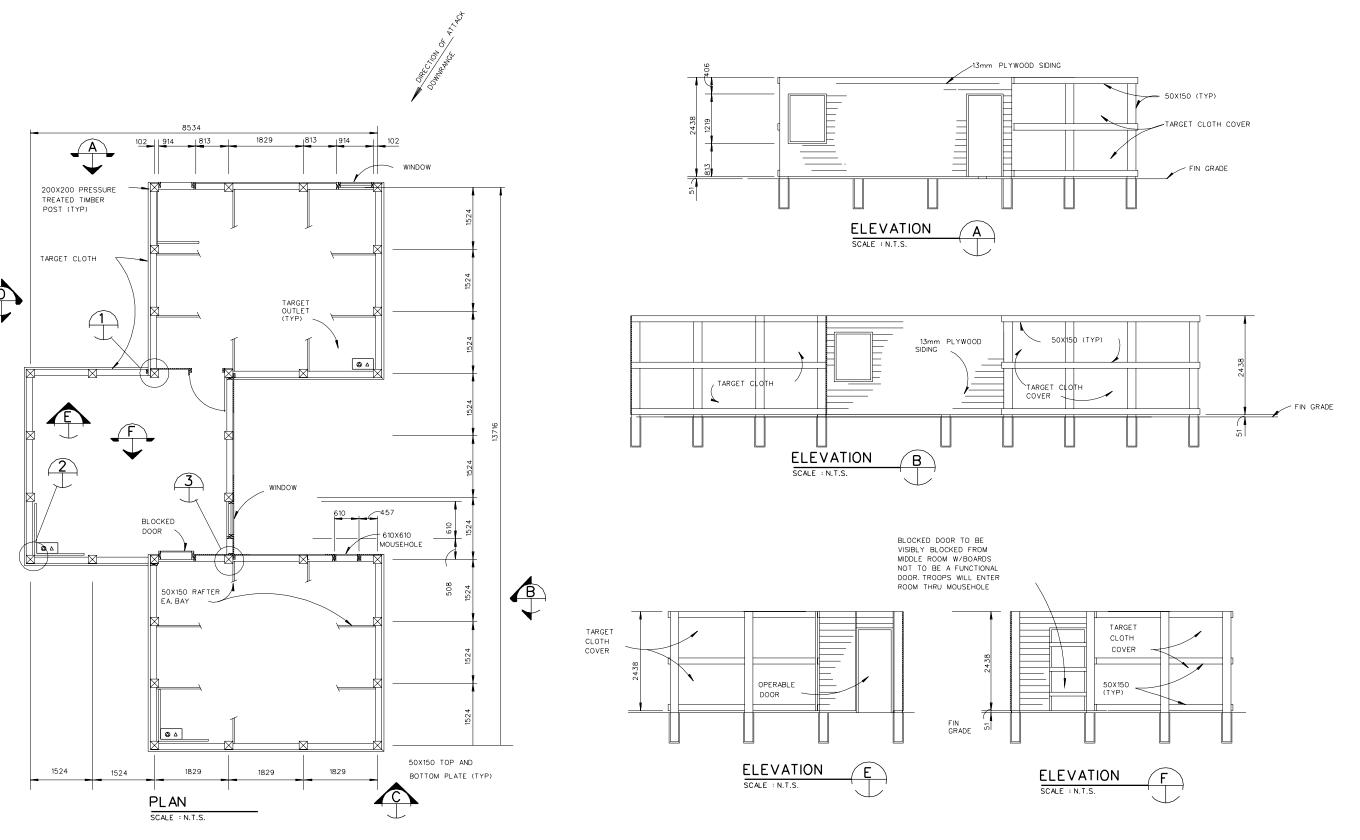




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NGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL URBAN ASSAULT COURSE

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STATION 1
DIVIDUAL AND TEAM TECHNIQUES

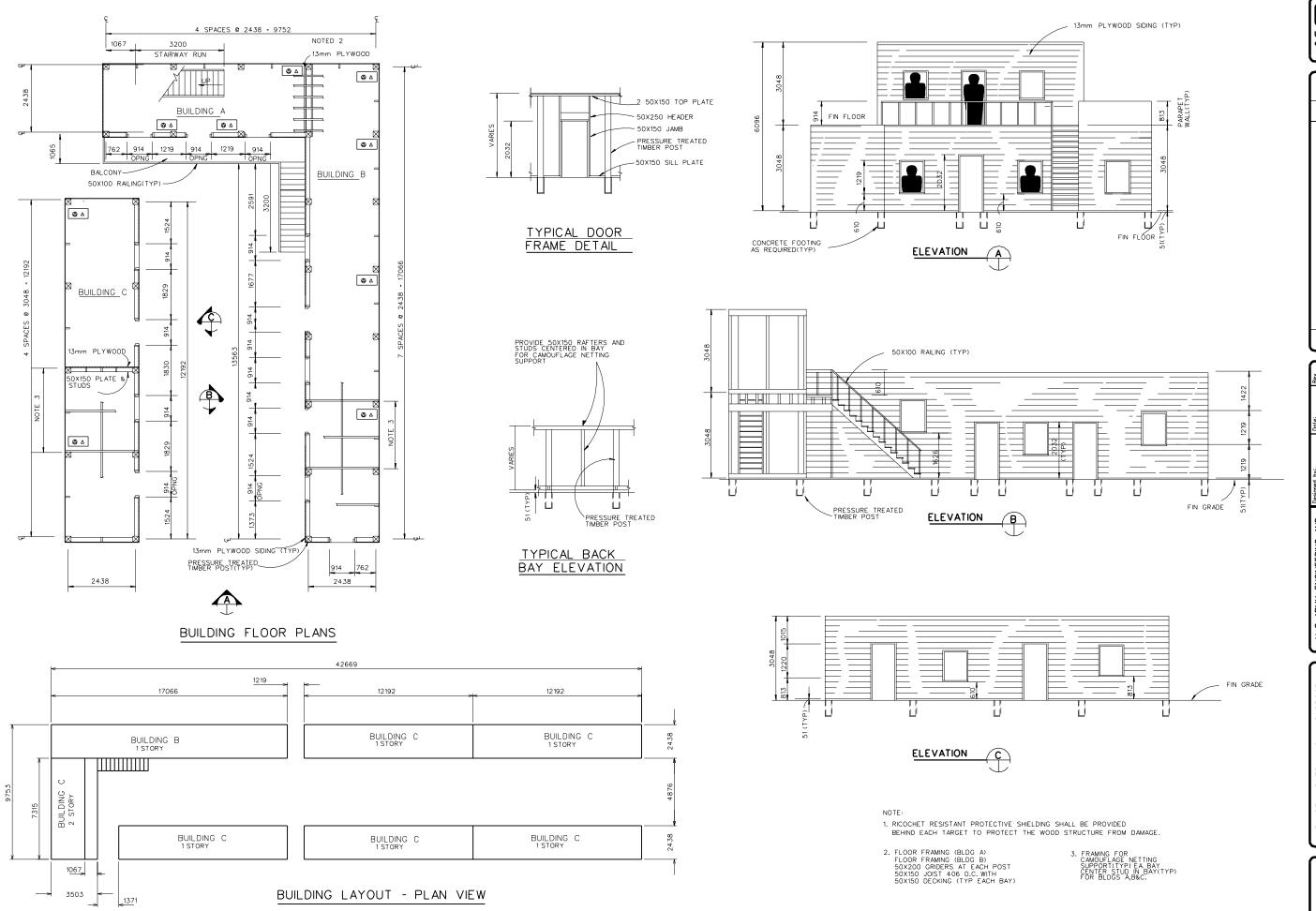
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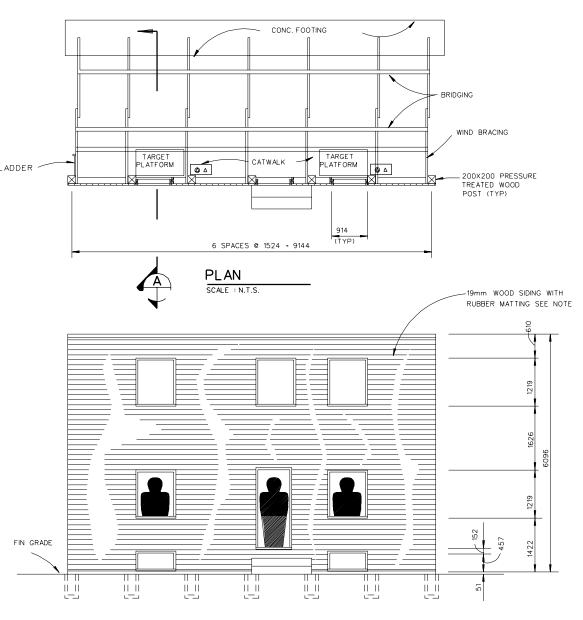
RICOCHET RESISTANT PROTECTIVE SHIELDING SHALL BE PROVIDED BEHIND EACH TARGET TO PROTECT THE WOOD STRUCTURE FROM DAMAGE.



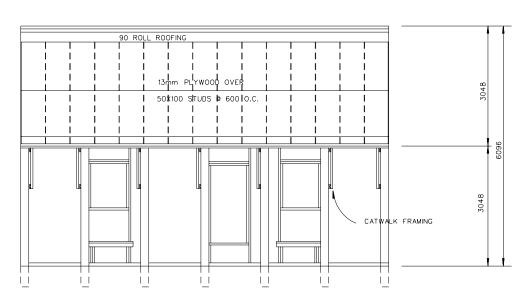


E AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL I ASSAULT COURSE STATION 2 PLATOON TECHNIQUES URBAN AD AND

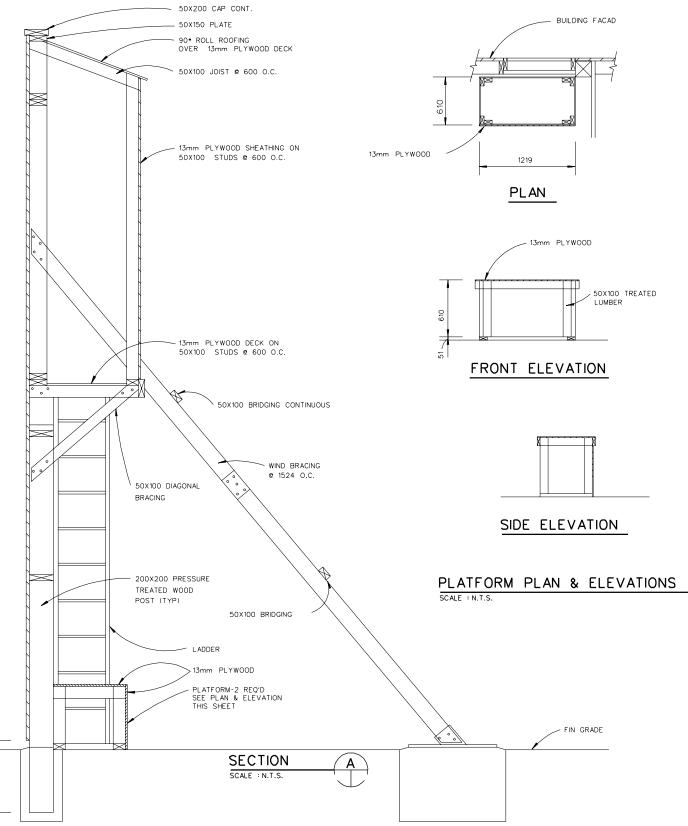
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FRONT ELEVATION SCALE : N.T.S.



REAR ELEVATION

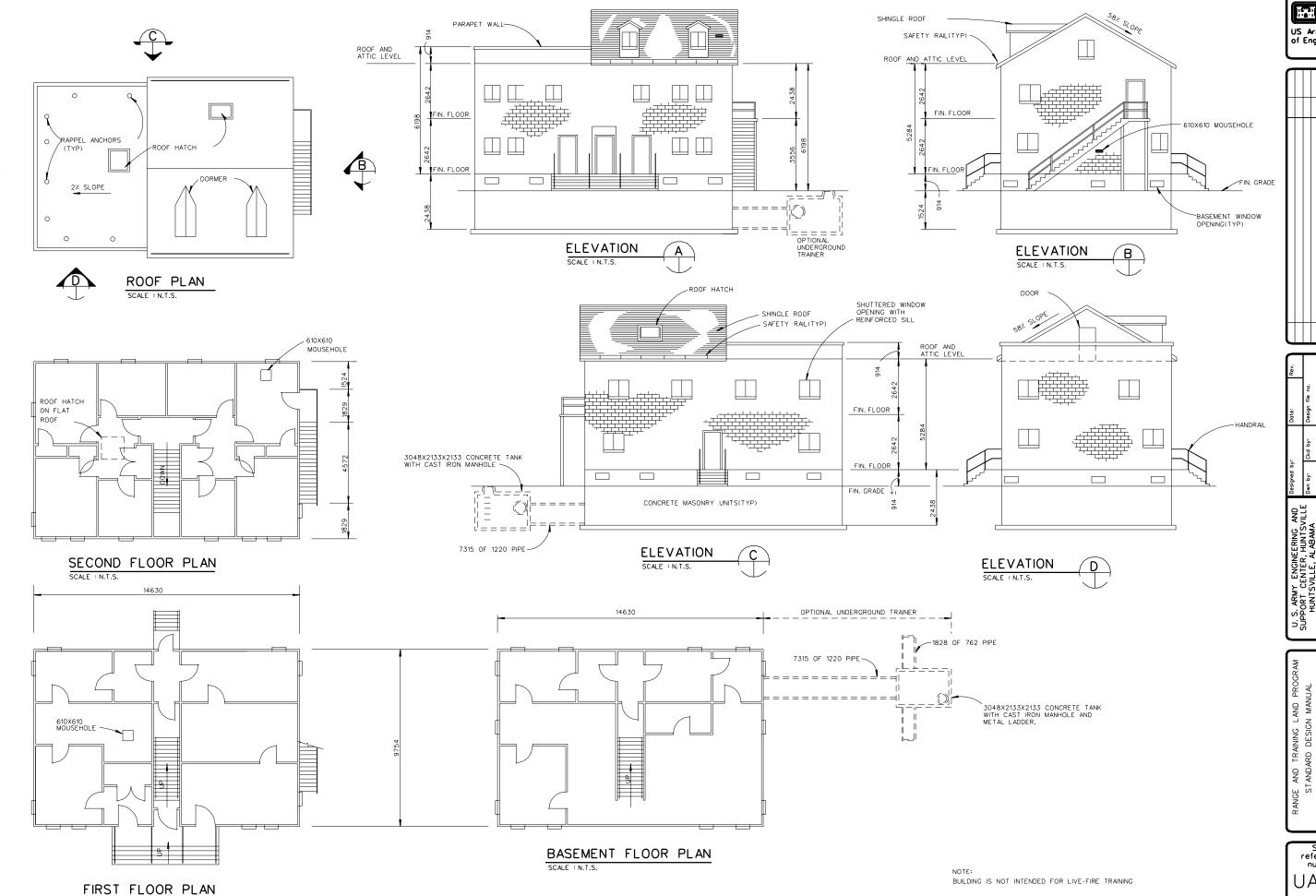


NOTE:
PROVIDE RUBBER MATTING ("LINATEX" OR SIMILAR)
ON THE FACE OF FRONT FACADE TO PREVENT
SHATTERING OF THE WOOD FROM THE IMPACT
OF THE GRENADES

GE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL

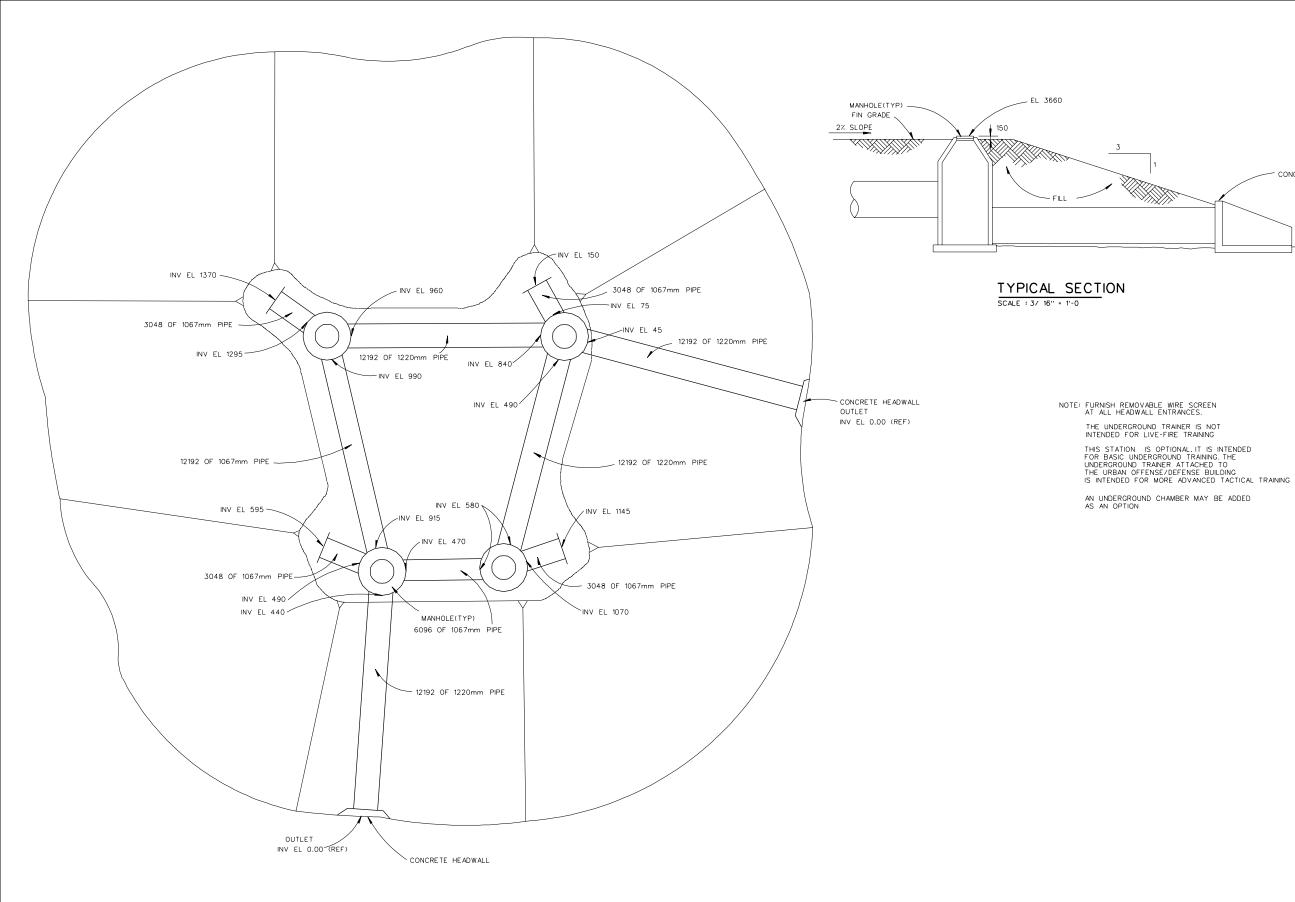
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CONCRETE HEADWALL(TYP)

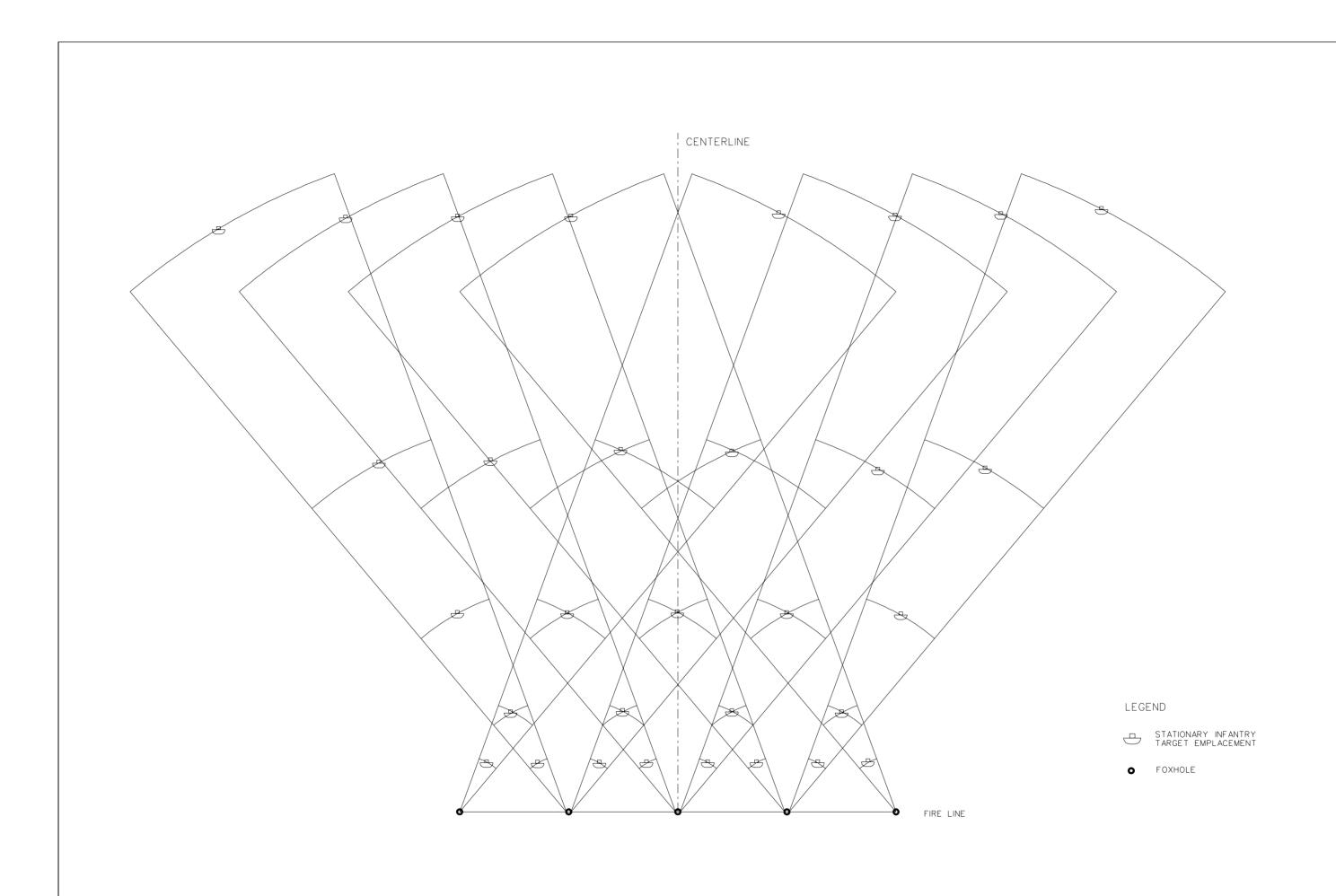
SLOPE TO DRAIN

EXISTING GROUND

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RANGE AND TRANNING LAND PROGRAM
STANDARD DESIGN MANUAL
URBAN ASSAULT COURSE
STATION 5
UNDERGROUND TRANER

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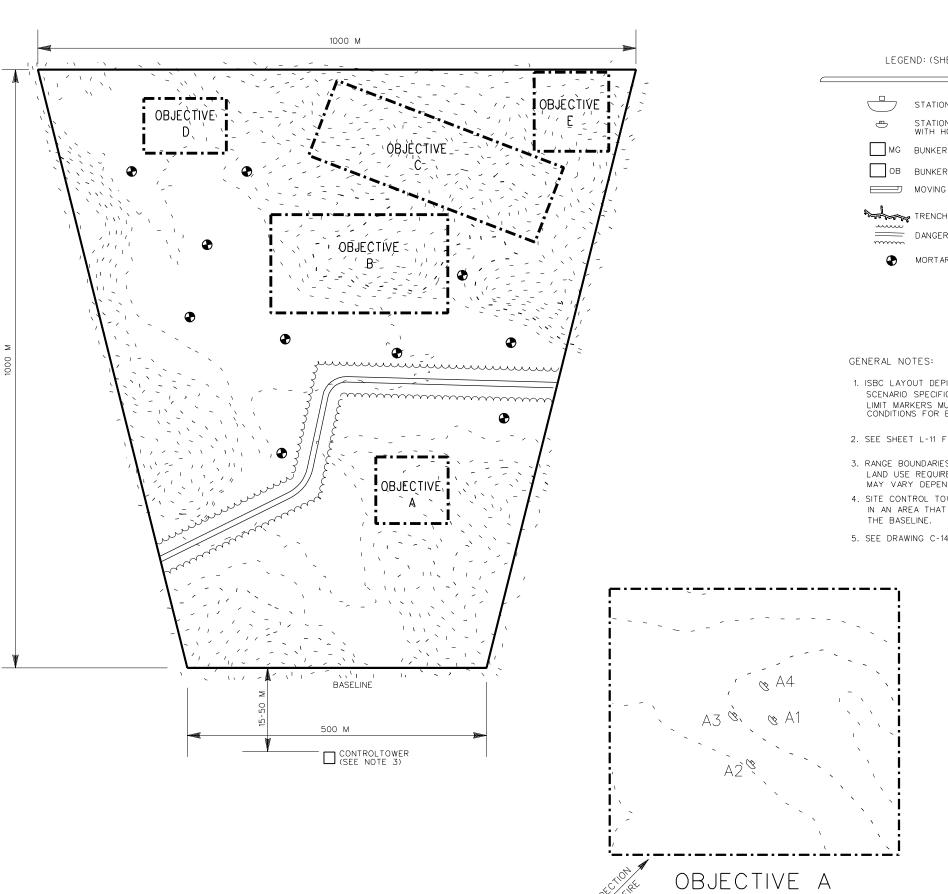




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RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
FCC- 17893

Sheet reference number: SDR-1





ARMOR MOVING TARGET (MAT) EMPLACEMENT

STATIONARY ARMOR TARGET (SAT) EMPLACEMENT

STATIONARY INFANTRY TARGET (SIT) EMPLACMENT
WITH HOSTILE FIRE SIMULATOR

MG BUNKER - MACHINEGUN (MG)

OB BUNKER - OBSERVATION (OB)

MOVING INFANTRY TARGET (MIT) EMPLACEMENT

TRENCH

DANGER AREA (CLEARED AREA WITH ROAD)

MORTAR SIMULATION DEVICE EMPLACEMENT

- 1. ISBC LAYOUT DEPICTS TARGET POSITIONS AND TRAINING SCENARIO SPECIFICALLY TAILORED FOR THE TOPOGRAPHY SHOWN. LIMIT MARKERS MUST BE POSITIONED BASED ON SITE SPECIFIC CONDITIONS FOR EACH OBJECTIVE AND THE ENTIRE RANGE.
- 2. SEE SHEET L-11 FOR OBJECTIVES B,C,D AND E.
- 3. RANGE BOUNDARIES ARE GENERIC AND REPRESENT MAXIMUM EXPECTED LAND USE REQUIREMENTS. ACTUAL RANGE BOUNDARY CONFIGURATION MAY VARY DEPENDING ON SITE SPECIFIC CONDITIONS.
- 4. SITE CONTROL TOWER 15-50 METERS FROM THE BASELINE
 IN AN AREA THAT WILL PROVIDE AN UNOBSTRUCTED VIEW OF
- 5. SEE DRAWING C-14 FOR TRENCH LAYOUT AND DETAILS.



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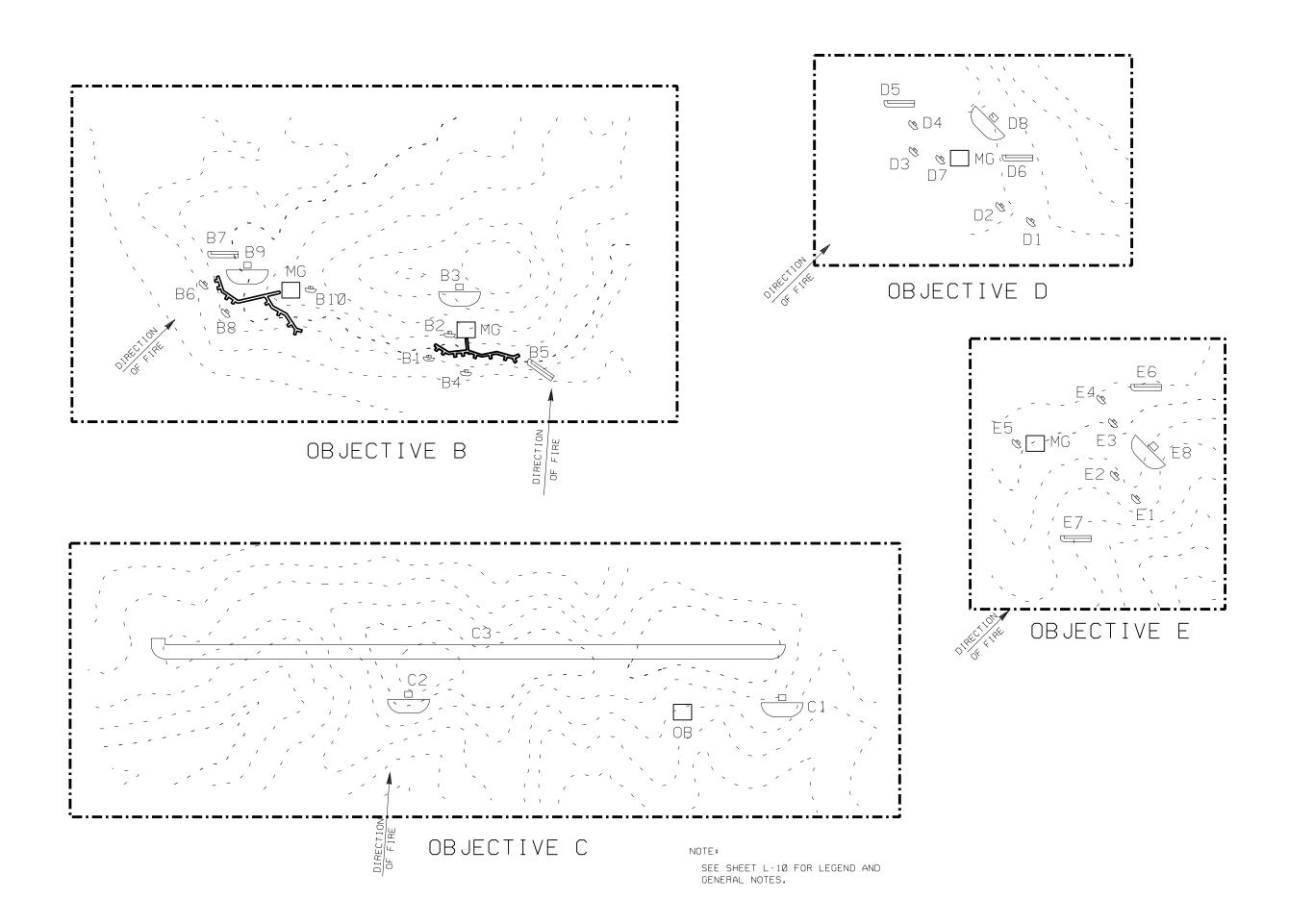
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FCC* 17895
INFANTRY SOUAD BATTLE COUR

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RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
FCC* 17895
INFANTRY SOUAD BATTLE COURSE

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LEGEND:

ARMOR MOVING TARGET CARRIER (AMTC) EMPLACEMENT

🖶 STATIONARY ARMOR TARGET (SAT) EMPLACEMENT

STATIONARY INFANTRY TARGET (SIT) EMPLACMENT WITH HOSTILE FIRE SIMULATOR

MG BUNKER - MACHINEGUN (MG)

LZ/PZ LANDING ZONE/PICKUP ZONE

INFANTRY MOVING TARGET (IMT) EMPLACEMENT

TRENCH

♠ MORTAR SIMULATION DEVICE EMPLACEMENT

V REMOTE PILOTED VEHICLE

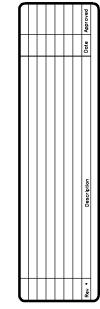
ASSAULT/DEFEND HOUSE WITH STATIONARY INFANTRY TARGET EMPLACEMENT

(LZ) LANDING ZONE

DESIGNER NOTES:

- 1. IPBC LAYOUT DEPICTS TARGET POSITIONS AND TRAINING SCENARIOS SPECIFICALLY TAILORED FOR THE TOPOGRAPHY SHOWN. THE INSTALLATION'S TRAINING OFFICER MUST DETERMINE THE LAYOUT OF THE IPBC IN ORDER TO MAKE BEST USE OF THE AVAILABLE LAND. THE SIZE, POSITIONING, AND DISTANCE FROM THE BASELINE OF EACH OBJECTIVE IS FLEXIBLE AND SHOULD BE ADJUSTED TO SUIT ANY GIVEN RANGE.
- 2. LIMIT MARKERS MUST BE POSITIONED BASED ON SITE-SPECIFIC CONDITIONS FOR EACH OBJECTIVE AND THE ENTIRE RANGE.
- 3. RANGE BOUNDARIES ARE GENERIC AND REPRESENT MAXIMUM EXPECTED LAND-USE REQUIREMENTS. ACTUAL RANGE BOUNDARY CONFIGURATION MAY VARY DEPENDING ON SITE SPECIFIC CONDITIONS.
- 4. SITE CONTROL TOWER 15-50 METERS BEHIND THE BASELINE IN AN AREA THAT WILL PROVIDE AN UNOBSTRUCTED VIEW OF THE BASELINE. SITE THE ADMINISTRATION AREA APPROXIMATELY 250 METERS BEHIND THE BASELINE. BOTH THE CONTROL TOWER AND THE ADMINISTRATION AREA SHOULD BE LOCATED TO ONE SIDE OF THE BASLINE IN ORDER TO PROVIDE AN UNOBSTRUCTED ASSEMBLY AND ADVANCEMENT AREA.
- 5. THIS RANGE IS NOT DESIGNED FOR TANKS OR MECHANIZED VEHICLES BEYOND THE BASELINE.
- 6. THE INSTALLATION'S TRAINING OFFICER MUST CHOOSE SIX TARGET-FIRING POSITION PAIRS TO RECIEVE THE LOCATION OF MISS AND HIT SYSTEMS (LOMAH).
- 7. SEE SHEETS L-13 AND L-14 FOR OBJECTIVES A,B,C,D,E AND F LAYOUTS.

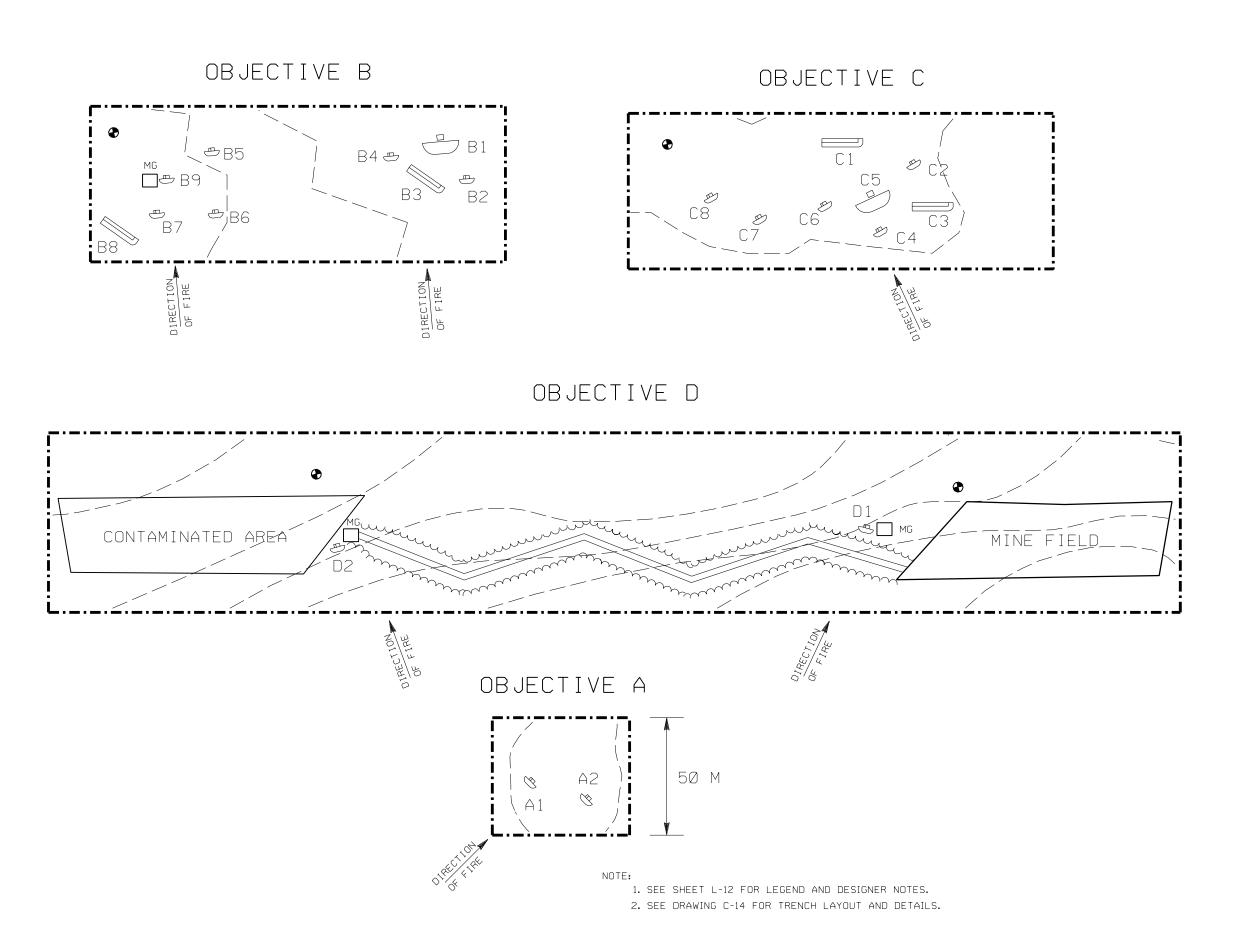




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STANDARD DESIGN MANUAL FCC• 17897 INFANTRY PLATOON BATTLE CO (1 OF 3)







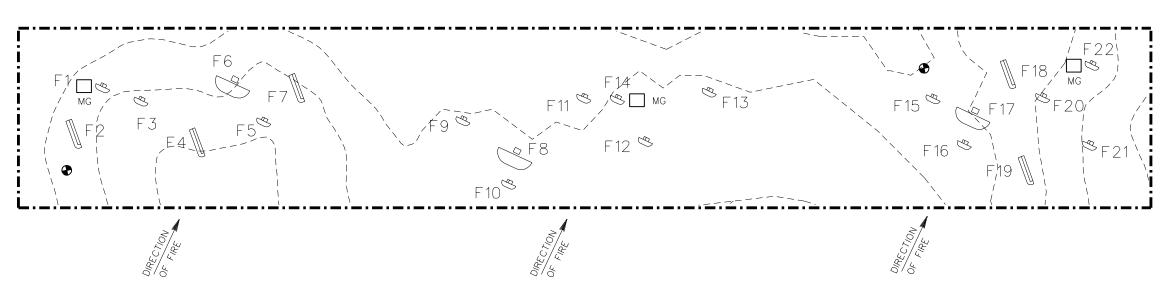
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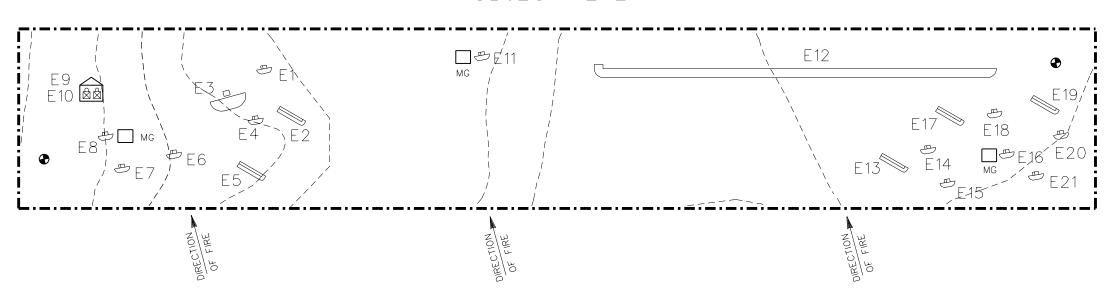
RANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
FCC+ 17897
INFANTRY PLATOON BATTLE COURSE
(2 OF 3)

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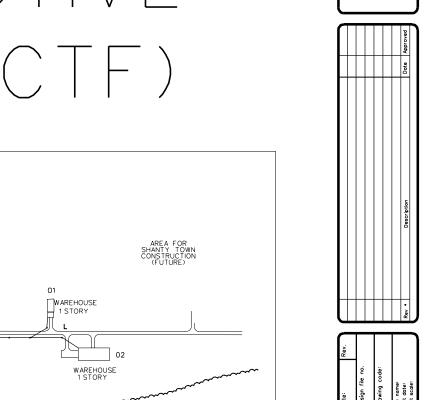
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NOTE: 1. SEE SHEET L-12 FOR LEGEND AND GENERAL NOTES

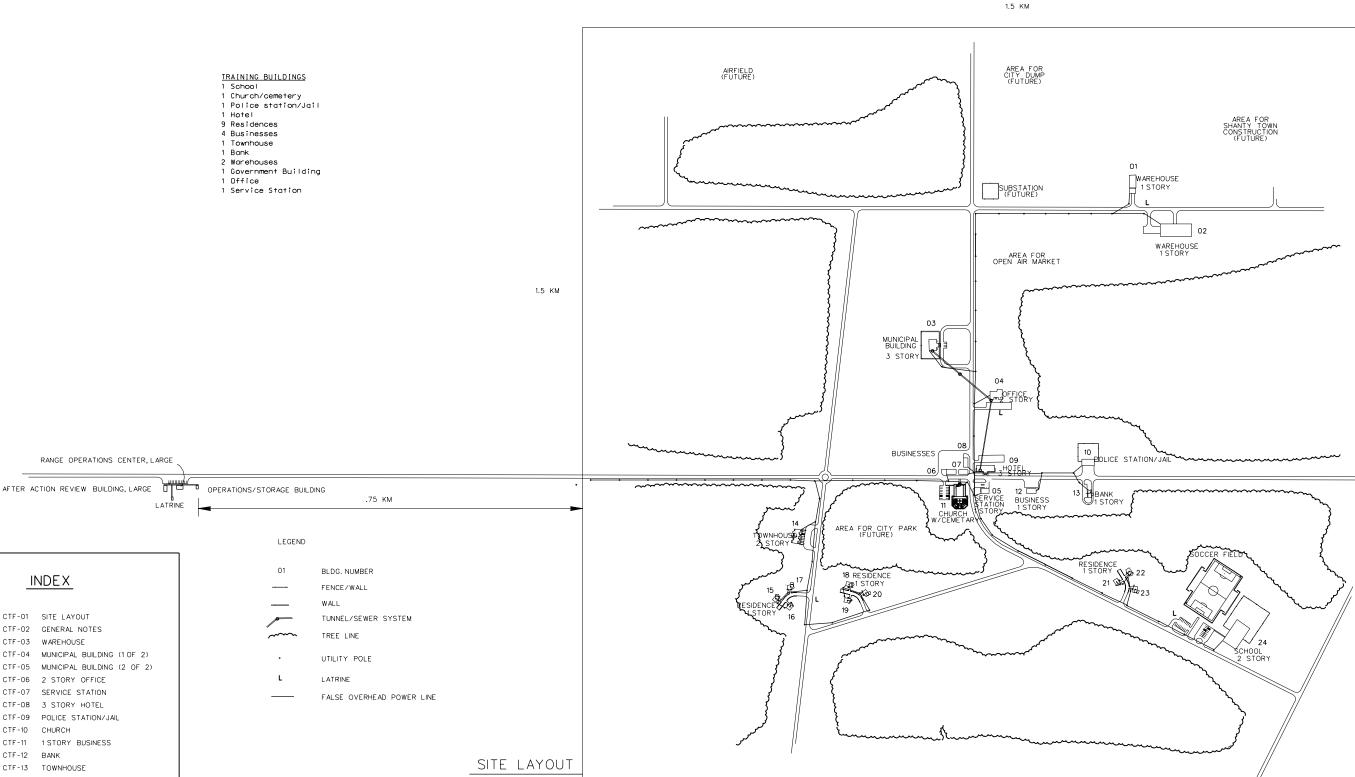


COMBINED ARMS COLLECTIVE TRAINING FACILITY (CACTF)



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US Army Corps of Engineers



CTF-01 SITE LAYOUT

CTF-02 GENERAL NOTES CTF-03 WAREHOUSE

INDEX

CTF-04 MUNICIPAL BUILDING (1 OF 2) CTF-05 MUNICIPAL BUILDING (2 OF 2)

CTF-06 2 STORY OFFICE CTF-07 SERVICE STATION

CTF-08 3 STORY HOTEL CTF-09 POLICE STATION/JAIL

CTF-10 CHURCH

CTF-11 1 STORY BUSINESS CTF-12 BANK

CTF-13 TOWNHOUSE CTF-14 RESIDENCE CTF-15 SCHOOL

number CTF-01

TRAINING LAND PROGRAM RD DESIGN MANUAL

TRAINING

GENERAL NOTES

REFERENCE CRITERIA

The design and construction must comply with applicable codes and standards including: technical instruction TI 800-01. "Design Criteria": Department of the Army regulations, technical manuals, handbooks, standards, and specifications; UBC, NEMA, ANSI, UL, ASTM, and NFPA standards, as required.

FUNCTIONAL REQUIREMENTS

All dimensions not labeled are in millimeters. Gutters, downspouts and splash blocks should be provided where required by climatic conditions. Covered entries and ice guards may be necessary in northern climates.

Concrete Masonary Units shown on the drawings are for illustrative purposes only. This represents one type of several construction methods that could be considered in design of buildings.

All buildings are designed to be accessed only by able-bodied personnel and do not require ADA compliance unless dictated by local criteria.

Openings in the walls are to simulate windows. There are no operable windows.

Lightning Protection is not required for this building.

FIRE PROTECTION

Fire Protection is not required per fire codes for these buildings. Consult local Fire Marshall for compliance with local laws.

ELECTRICAL SYMBOLS AND NOTES

CAMERA WITH CAMERA OUTLET

TARGET. TWIST-LOCK POWER OUTLET AND 2-CAT 5E CABLE JACKS (RJ-45)

All buildings shall be served by 120/240V 1 phase. 3-wire secondary power. Rigid Steel conduit shall extend a minumun of 1524 mm (5') outside the building for power and communication circuits entering and leaving the building. Voltage drop shall comply with NEC standards and Army technical manuals. Grounding will be installed in accordance with NFPA 70. the NEC. and other applicable standards.

The panel board shall be 120/240V single phase, mounted inside building. Target data and power outlets and camera outlets shall be provided.

Illumination levels will be designed in accordance with IES. Interior lighting shall consist of fluorescent lamps at 30 foot-candles. Exterior lighting shall be provided with seperateswitching located near points of egress.

The electrical system shall comply with NFPA 70 and NFPA 101. Exit signs will be provided in accordance with NFPA 101.

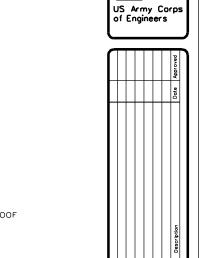


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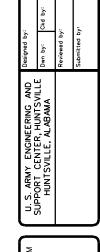
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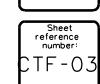
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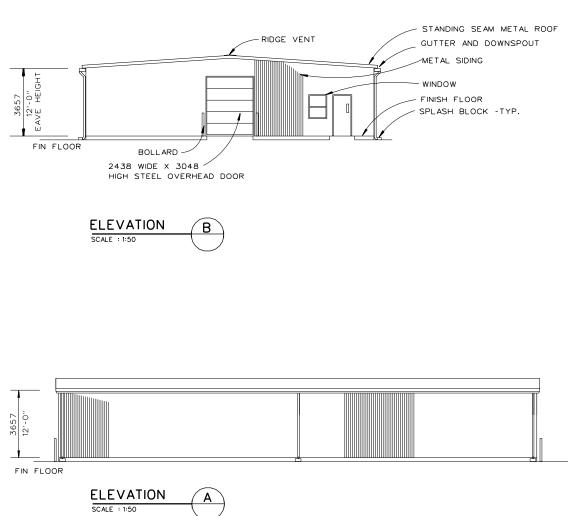
RANGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL COLLECTIVE TRAINING FACILITY WAREHOUSE PLANS AND ELEVATIONS

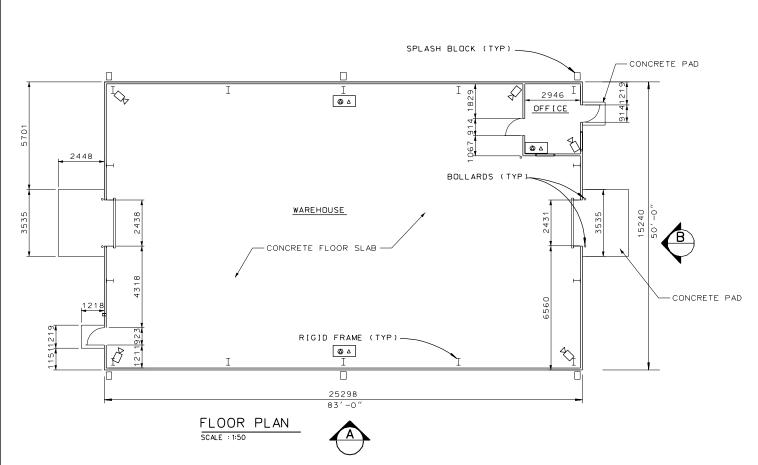


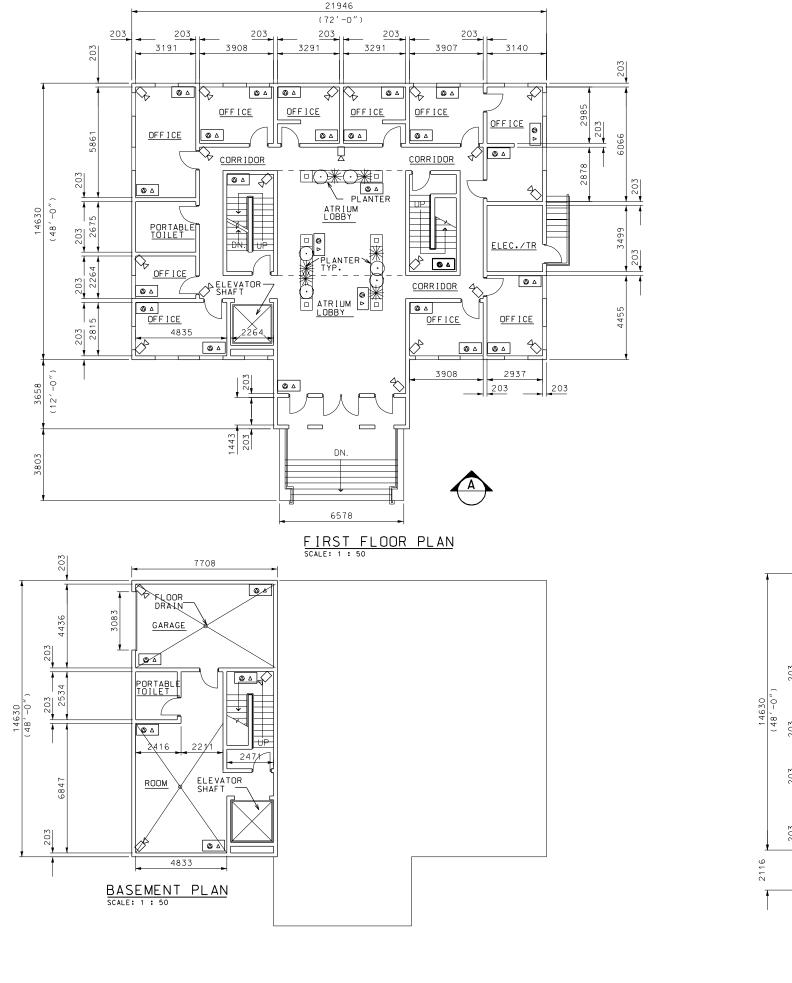
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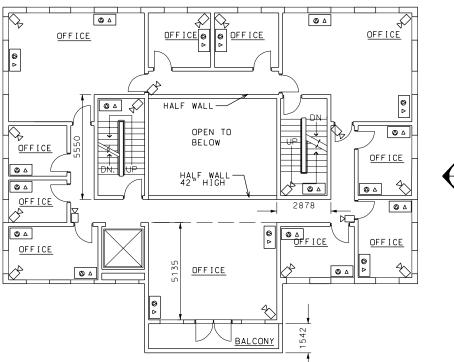
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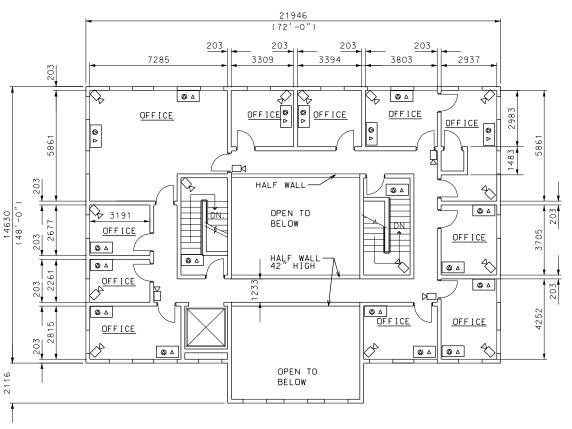






THIRD FLOOR PLAN

SCALE: 1: 50





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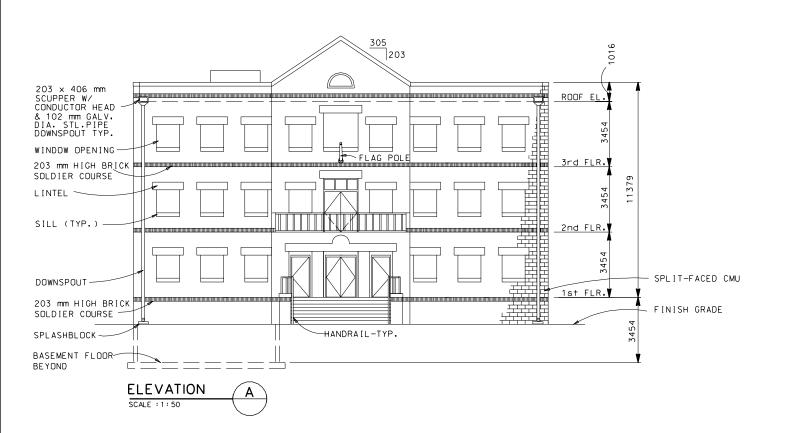
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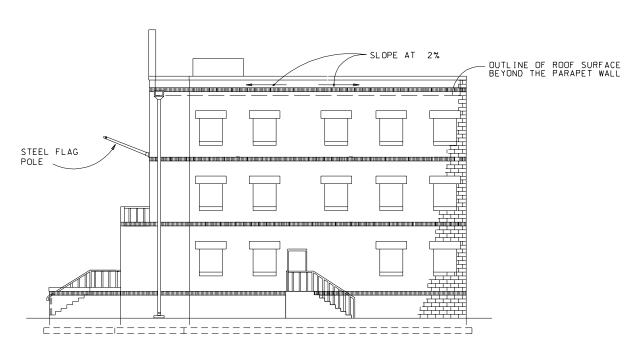
COLLECTIVE TRAINING FACLIITY MUNICIPAL BUILDING PLANS

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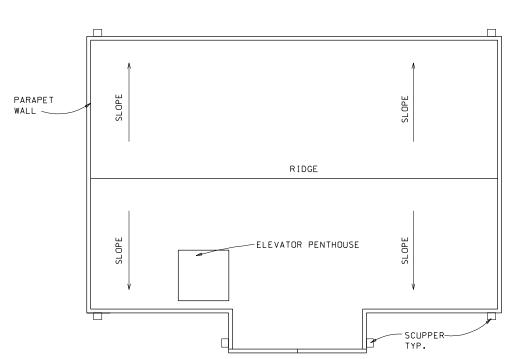
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ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

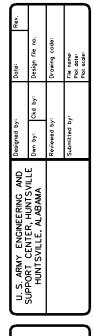








ROOF PLAN SCALE: 1: 50



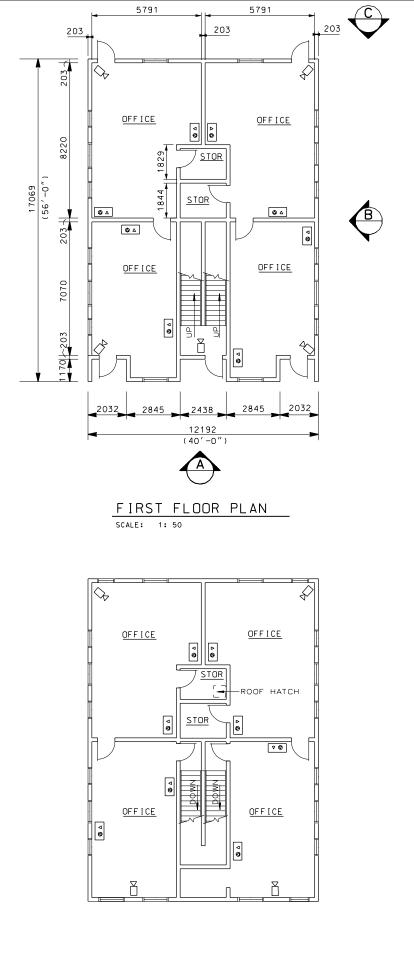
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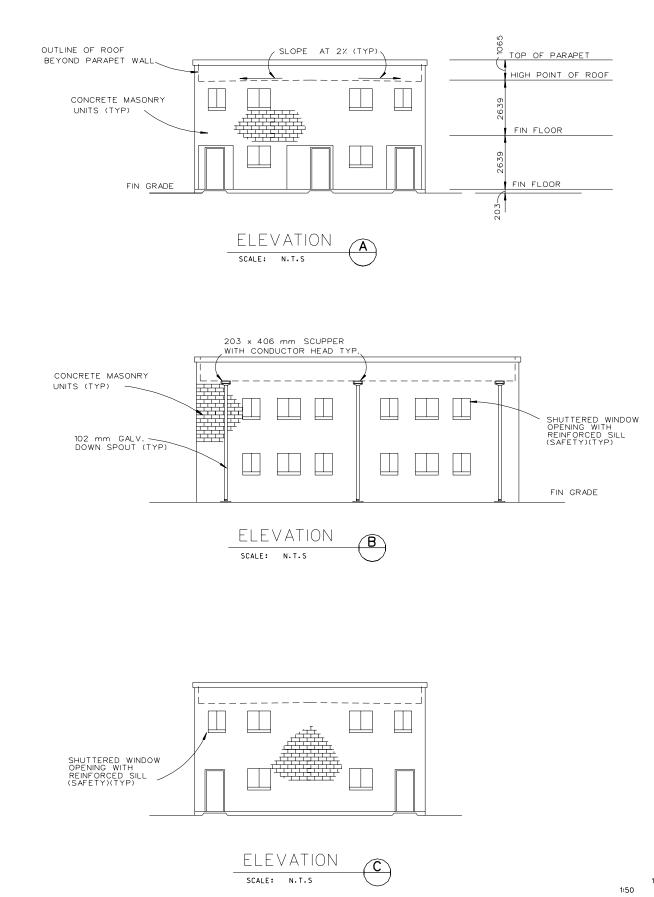
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RANGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL COLLECTIVE TRAINING FACILITY MUNICIPAL BUILDING ELEVATIONS

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RANGE AND TRAINING LAND PROGRAM STANDARD DESIGN MANUAL COLLECTIVE TRAINING FACILITY
2 STORY OFFICE
PLANS AND ELEVATIONS

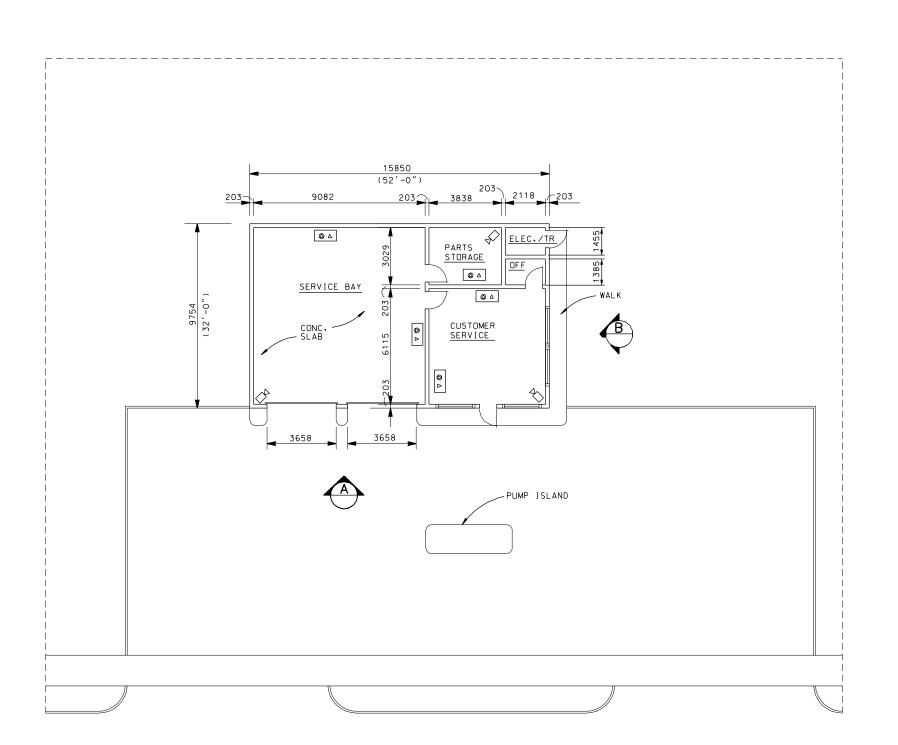
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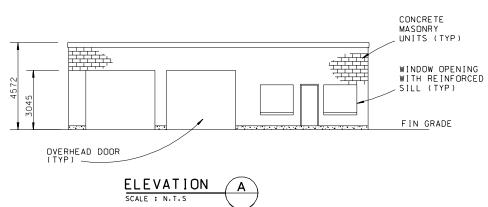
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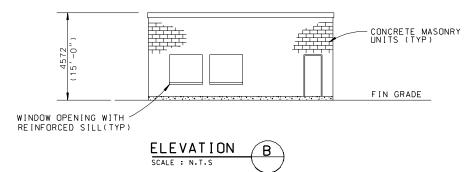
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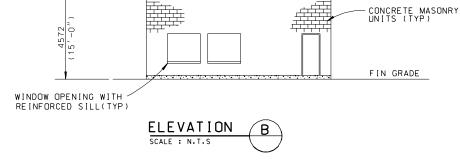
SECOND FLOOR PLAN

SCALE: 1: 50

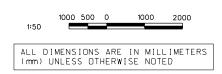








SITE PLAN/FLOOR PLAN SCALE : 1:50

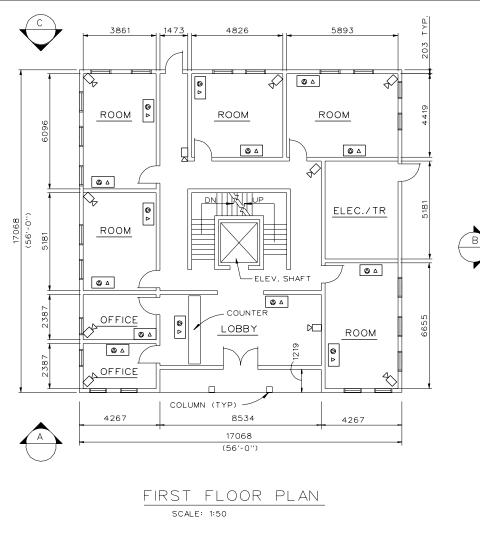


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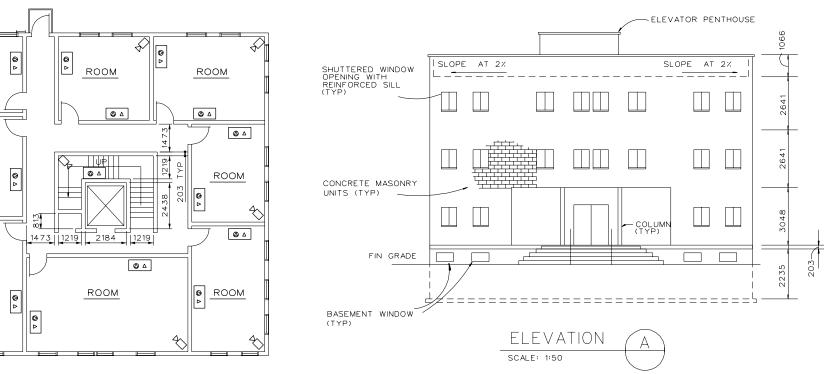
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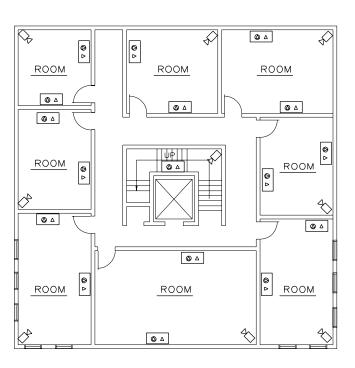
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ROOM

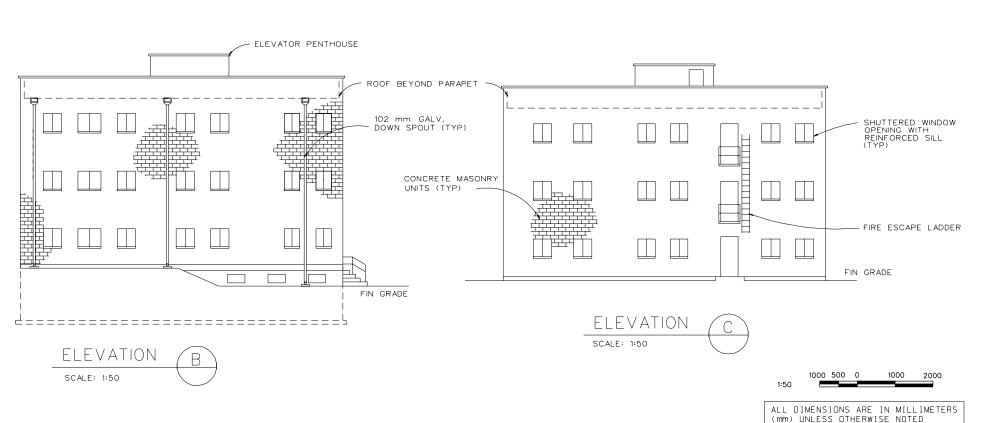
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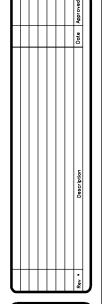
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BASEMENT PLAN





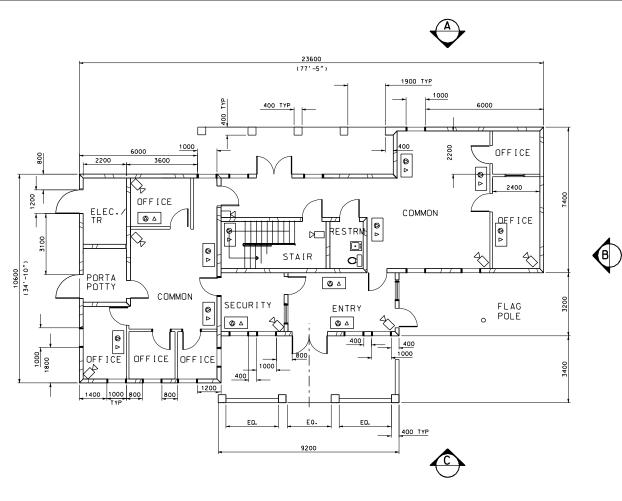
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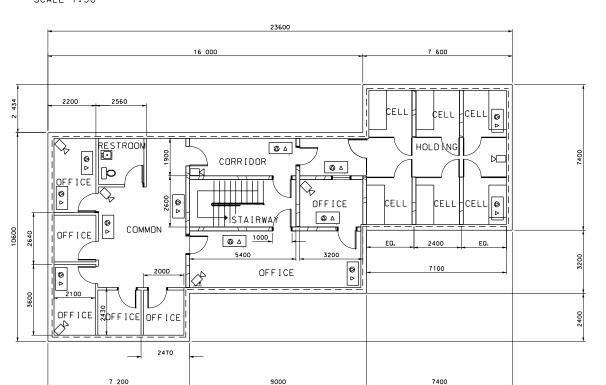
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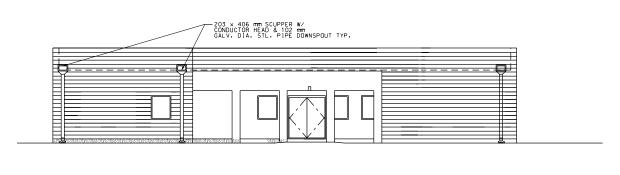
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FIRST FLOOR PLAN SCALE 1:50

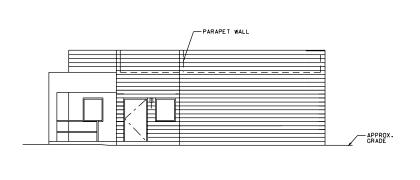




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ELEVATION

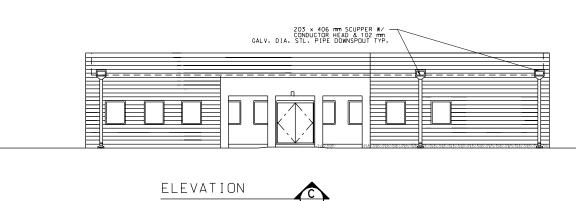
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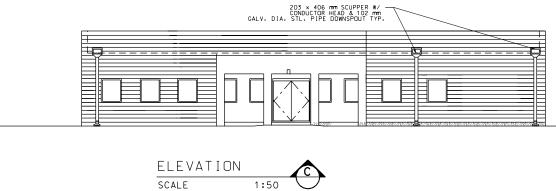


1:50

ELEVATION

SCALE





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BASEMENT FLOOR PLAN SCALE 1:50

ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS OTHERWISE NOTED

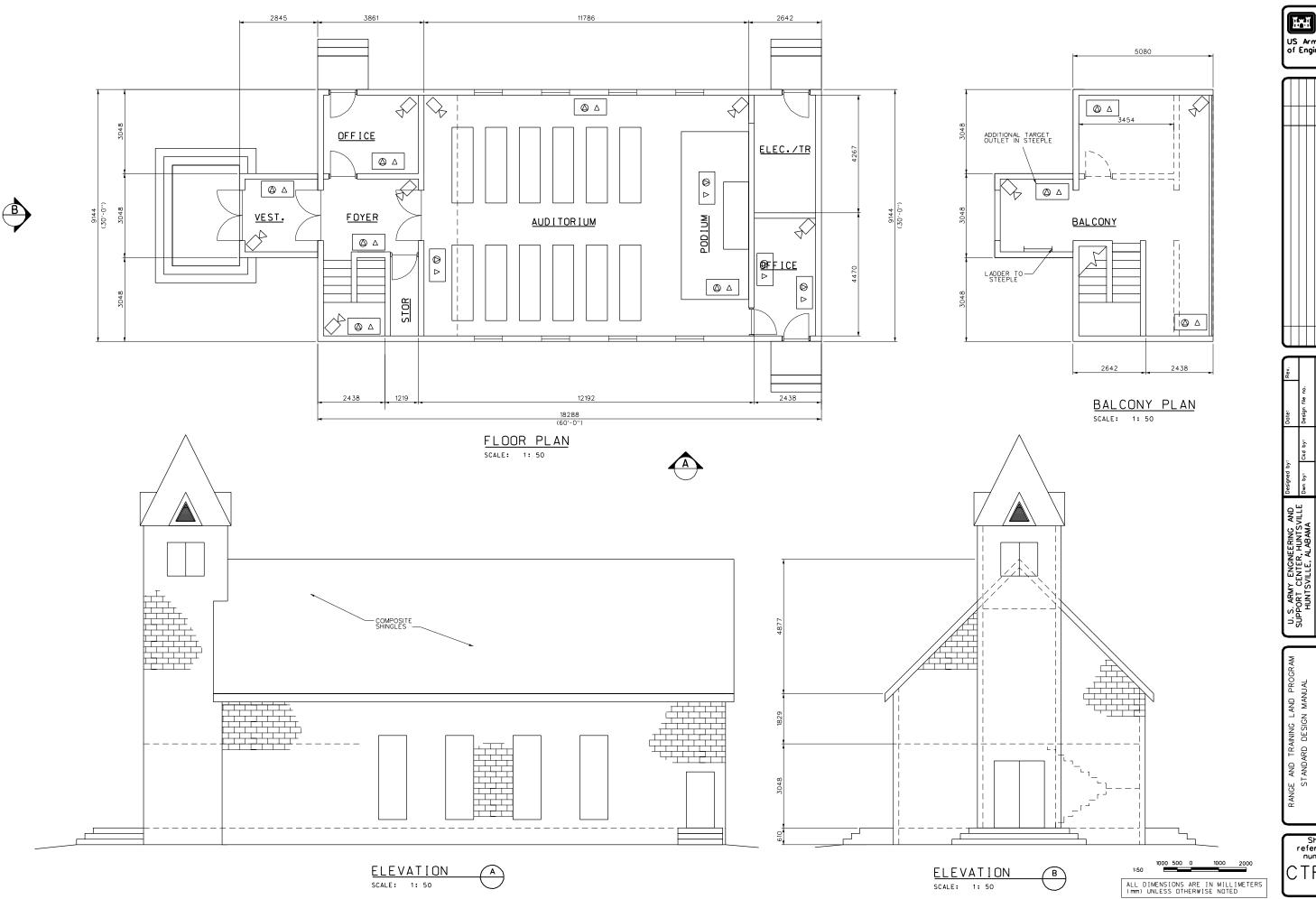
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PLANS AND ELEVATIONS

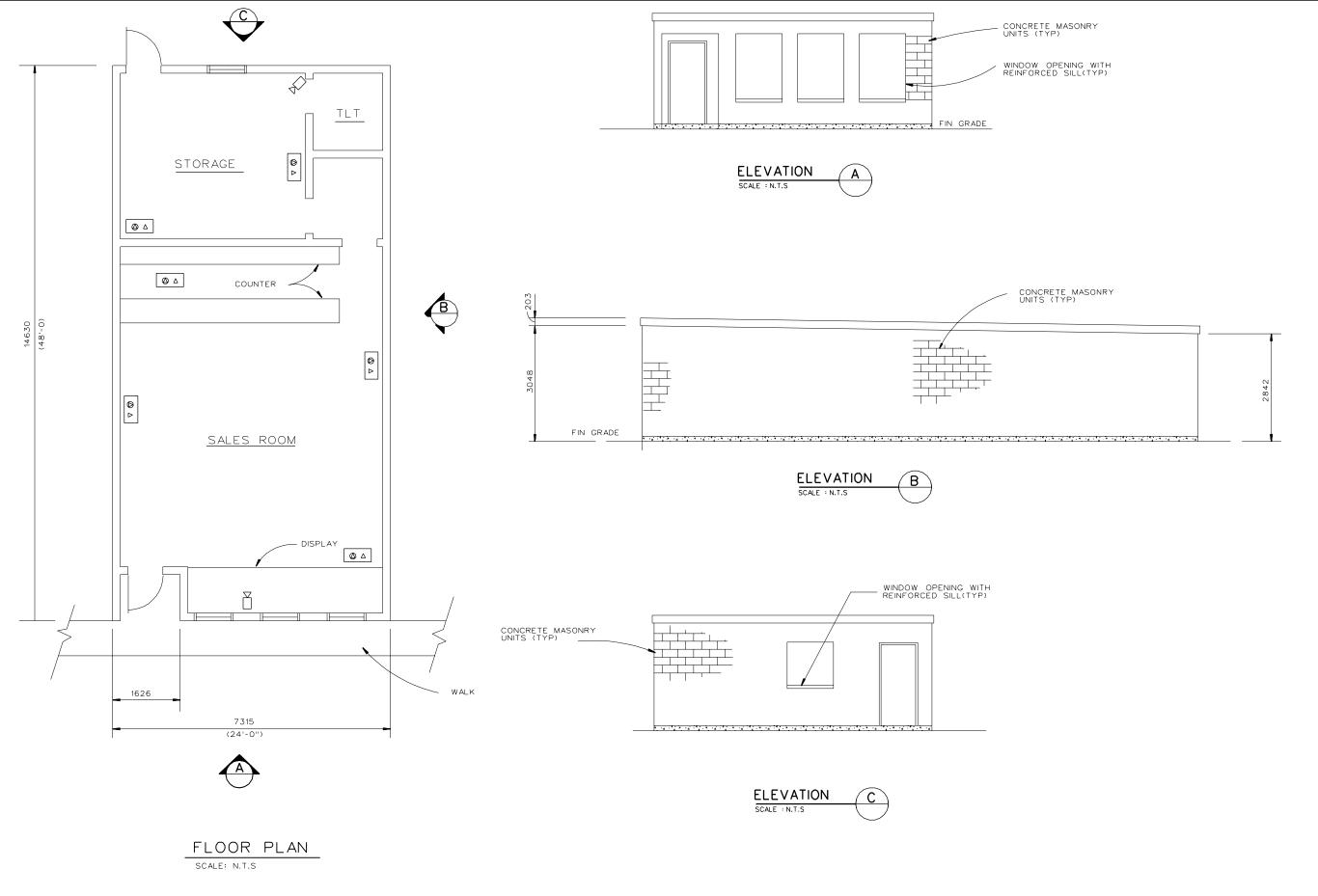
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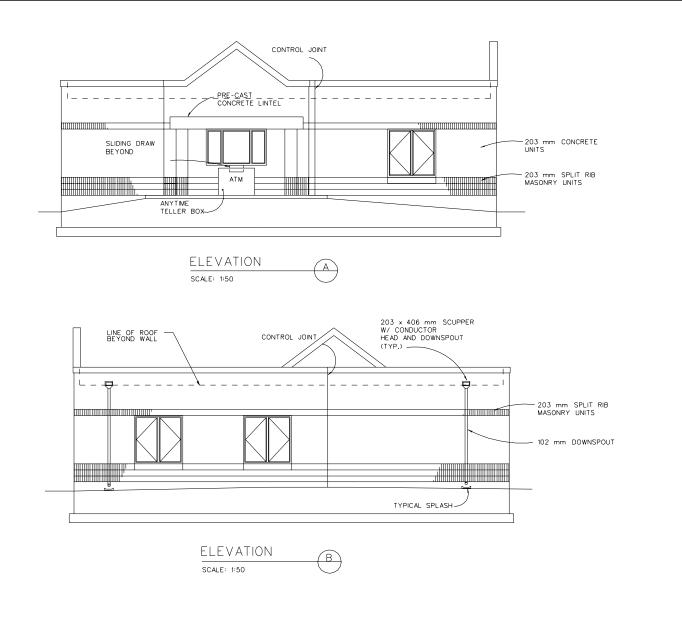


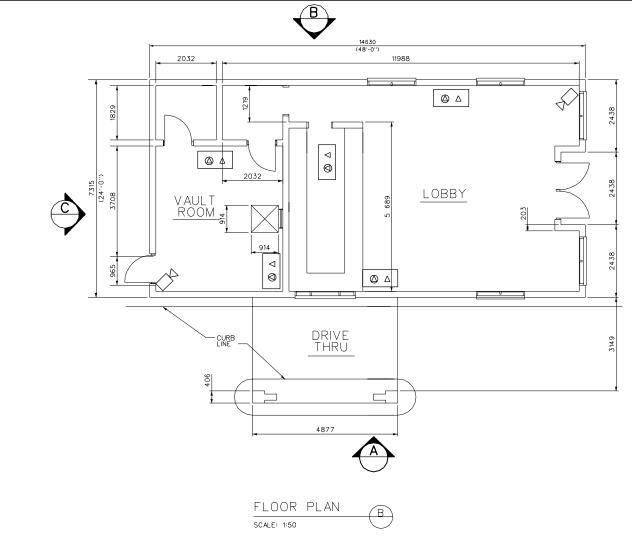
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STANDARD DESIGN MANUAL
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1 STORY BUSINESS
PLANS AND ELEVATIONS

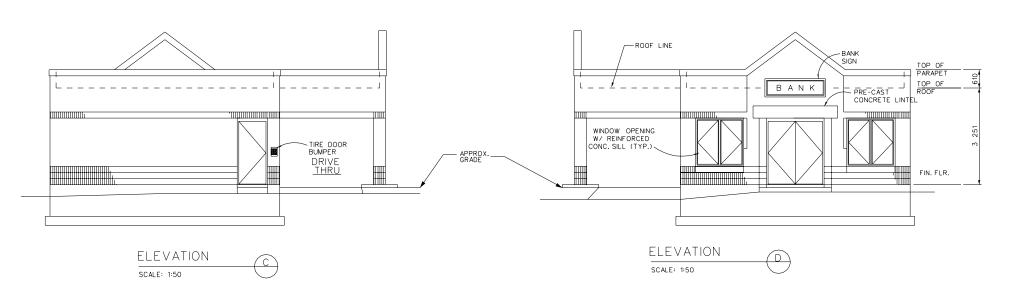
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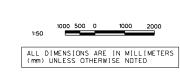
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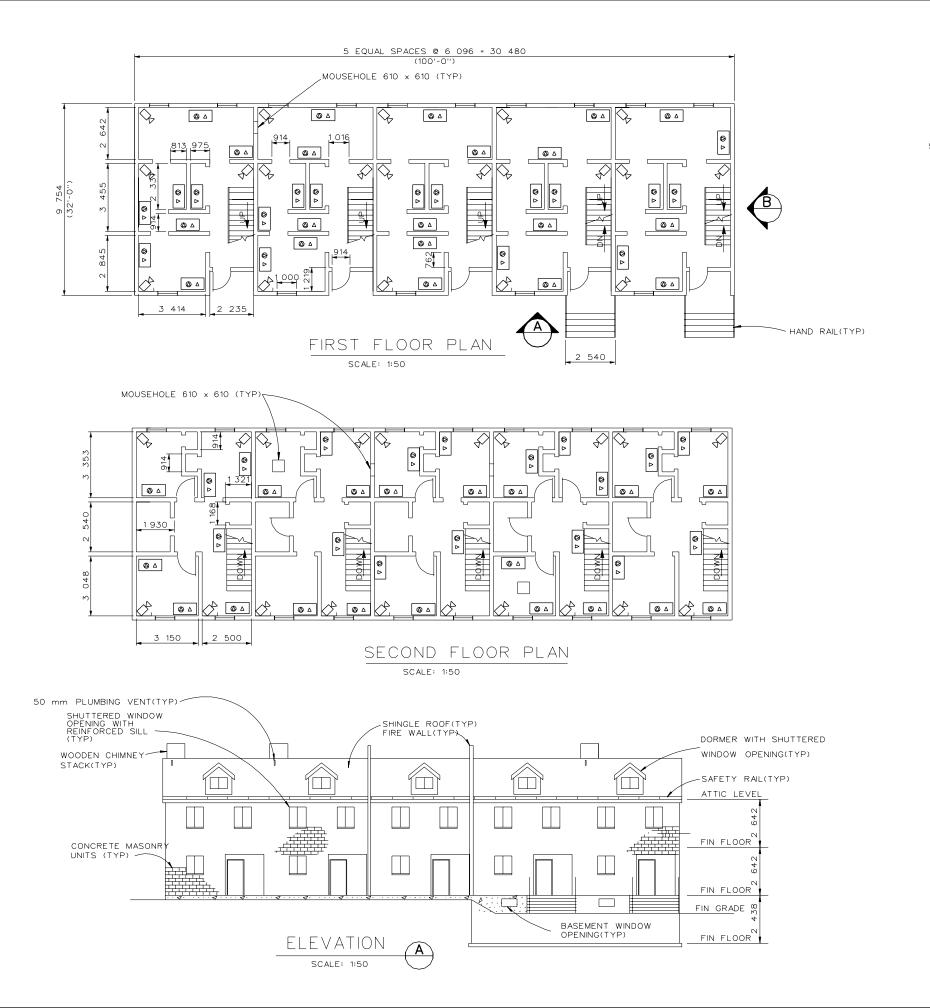


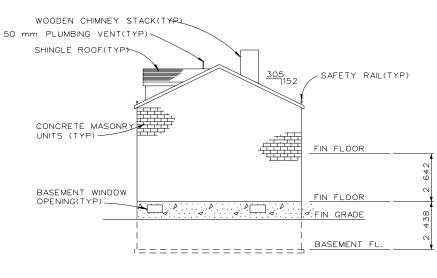


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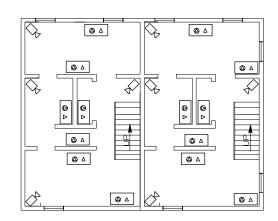
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ELEVATION

SCALE: 1:50



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BASEMENT PLAN

1:50

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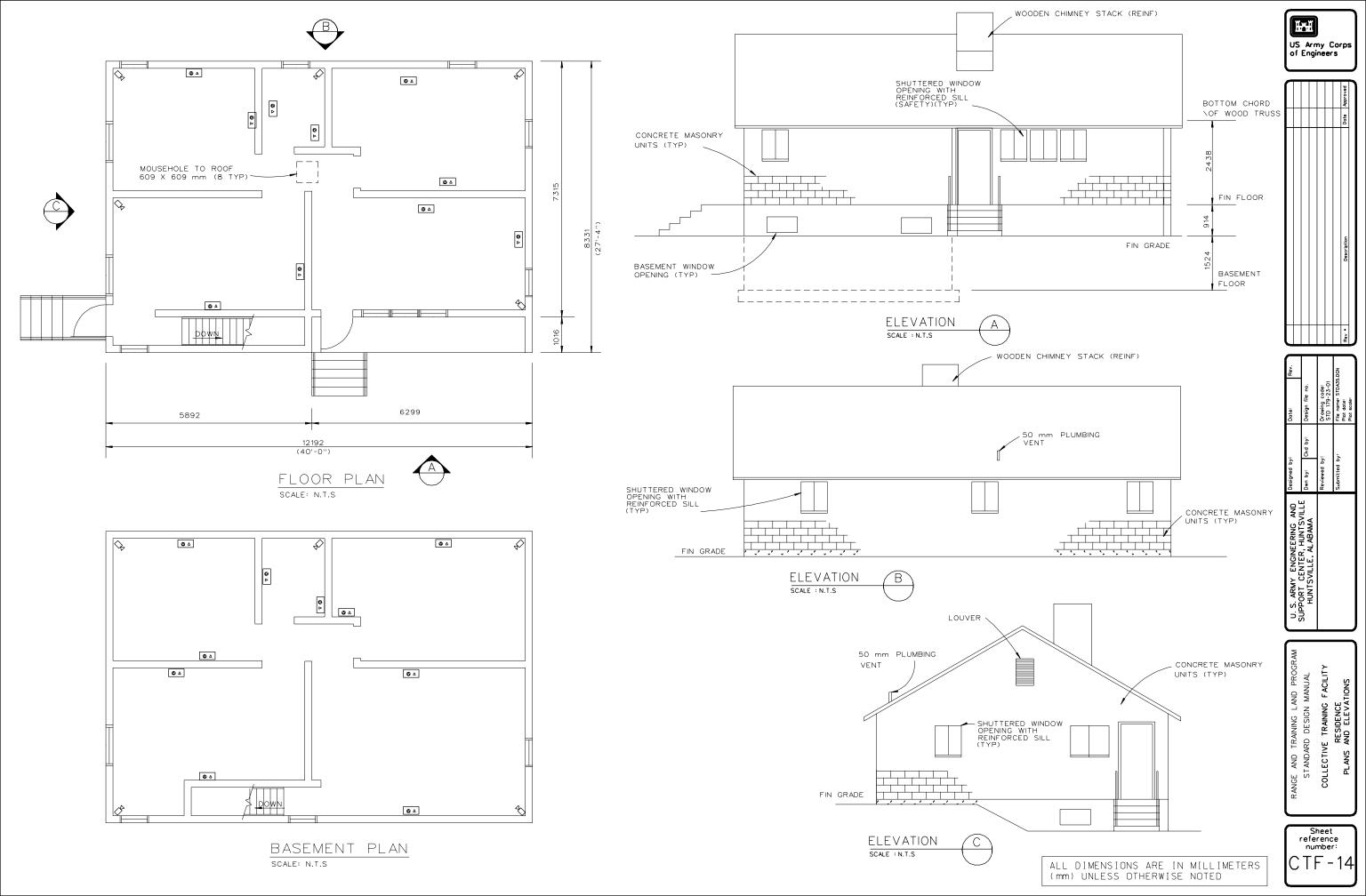
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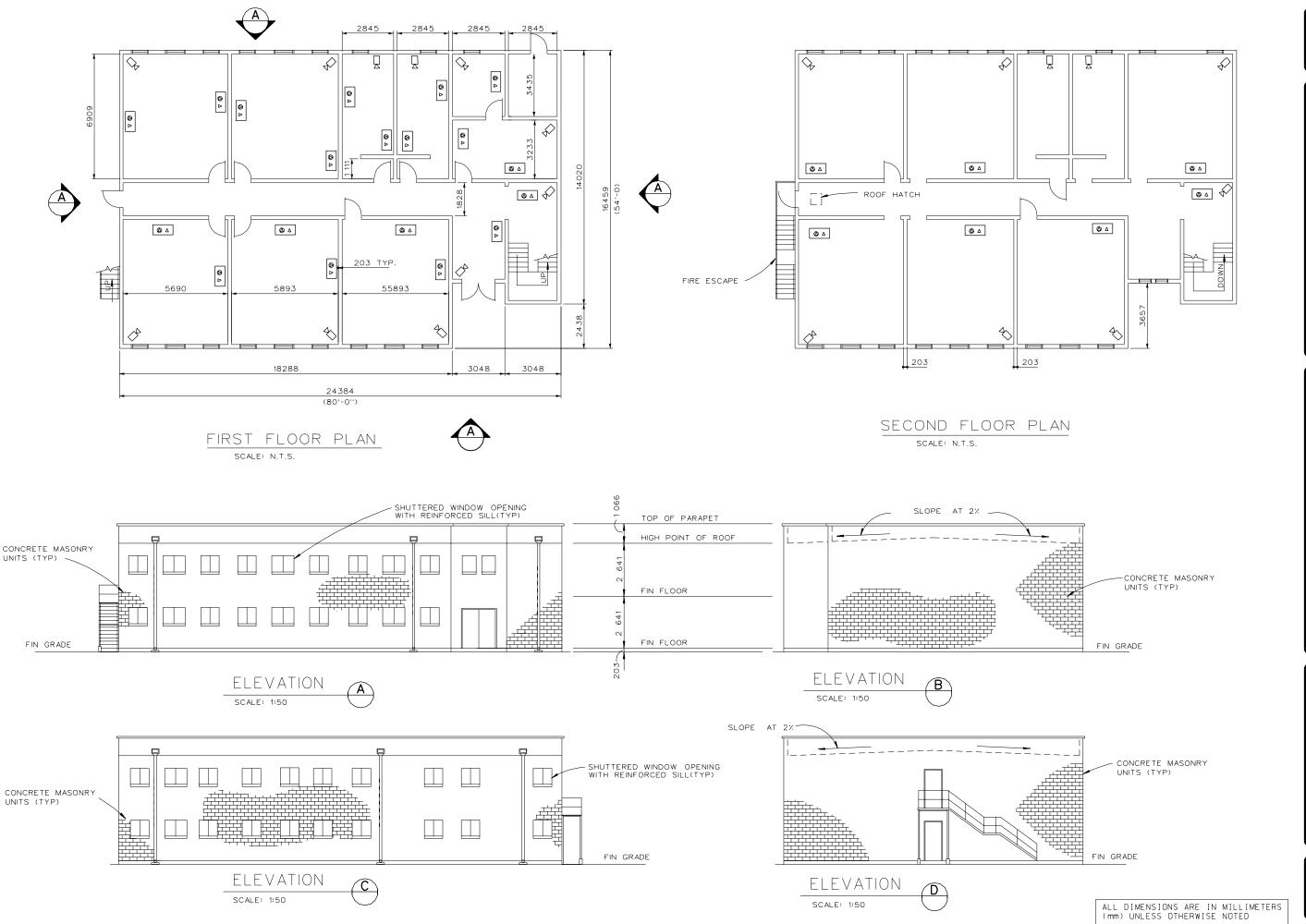
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COLLECTIVE TRAINING FACILITY TOWNHOUSE PLANS AND ELEVATIONS

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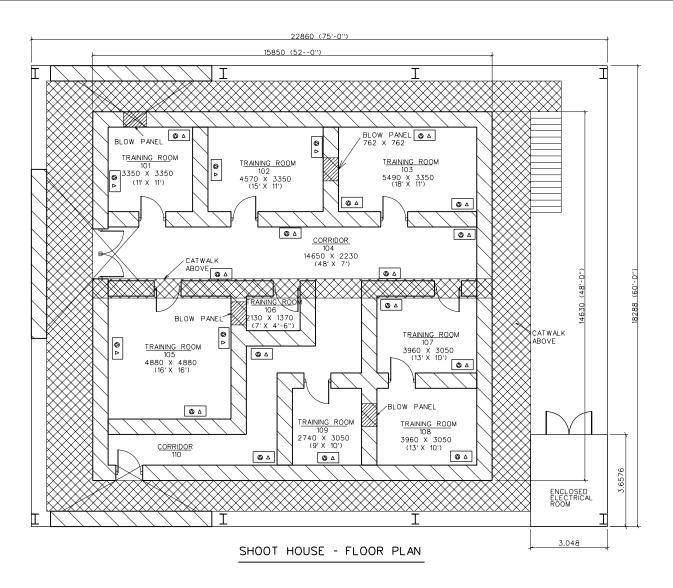


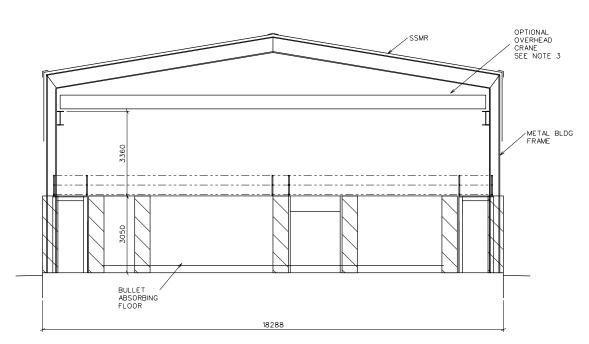


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ANGE AND TRAINING LAND PROGRAM
STANDARD DESIGN MANUAL
COLLECTIVE TRAINING FACILITY
SCHOOL





BUILDING SECTION



- 1. Bullet absorbing wall may be SACON, sand filled wall section or other commercial product designed to stop and contain rounds and ricochets.
- 2. Bullet traps should be used behind targets to reduce the number of rounds impacting the walls.
- 3. Bullet absorbing wall system must be designed to be replaceable.
 This may be done using the optional Overhead Crane, by using a mobile crane with a removable roof system, or some other method.
- 4. Target Outlet Boxes may be placed on top of the walls or in the floor in a protected enclosure. They must be placed so that a 3 meter cord can reach all areas where targets will be placed.
- 5. Target and Camera locations must be determined by the trainer based on the tasks required to meet the individual units METL with consideration to the SDZ.
- 6. The shoot house is not designed for live fragmentation/concussion grenades.
- 7. The shoot house must be designed to accommodate the types of mechanical and explosive breaching techniques that will be used.

 8. The SDZ of the facility is based on the locations of the firing points and targets, the weapon systems used and the ricochet
- characteristics of the bullet absorbing walls.

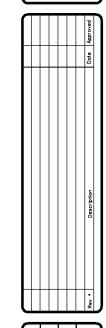
 9. Electrical room must be climate controlled.

BULLET ABSORBING WALL PANEL SEE NOTE 1



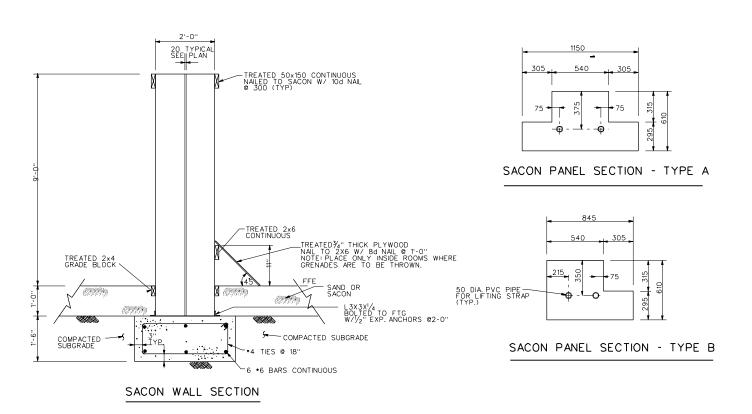
CATWALK



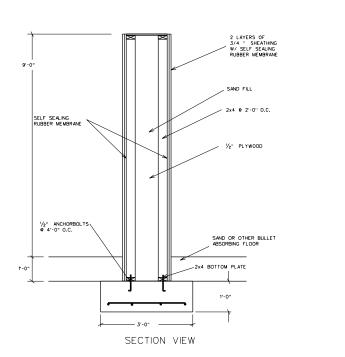


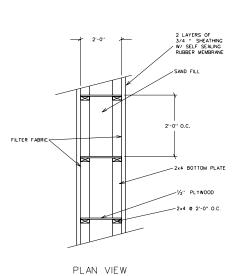
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SACON WALL DETAILS





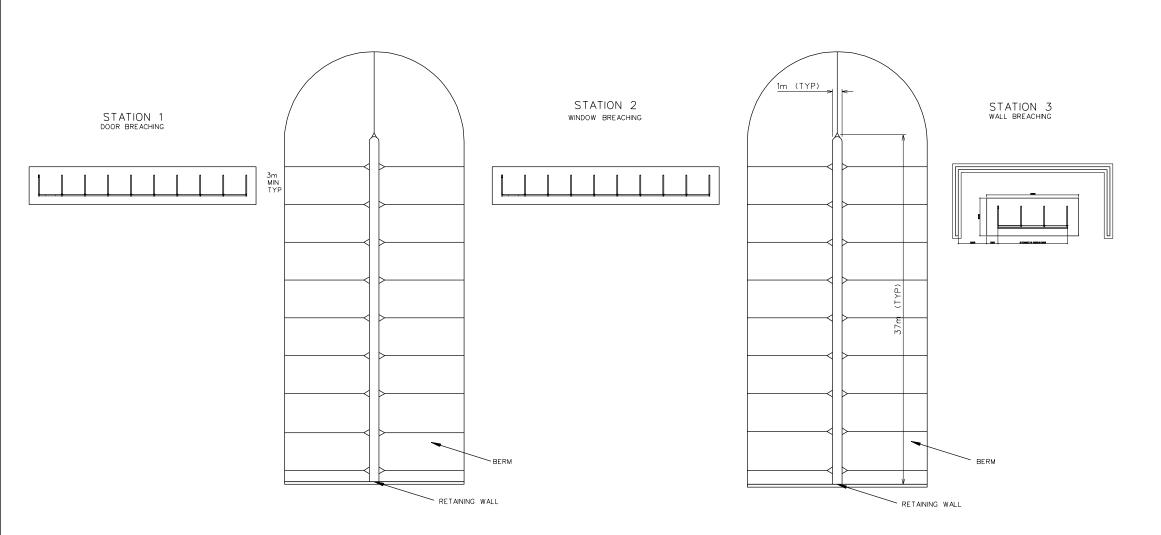
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RANGE AND TRAINING LAND PROGRA STANDARD DESIGN MANUAL SHOOT HOUSE



BREACH FACI:ITY - PLAN VIEW SCALE : N.T.S.

NOTES:

1. BERMS ARE TO BE 3m HIGH AND 1m WIDE ON TOP

2. SLOPE OF BERMS VARIES DEPENDING UPON SOIL CONDITIONS

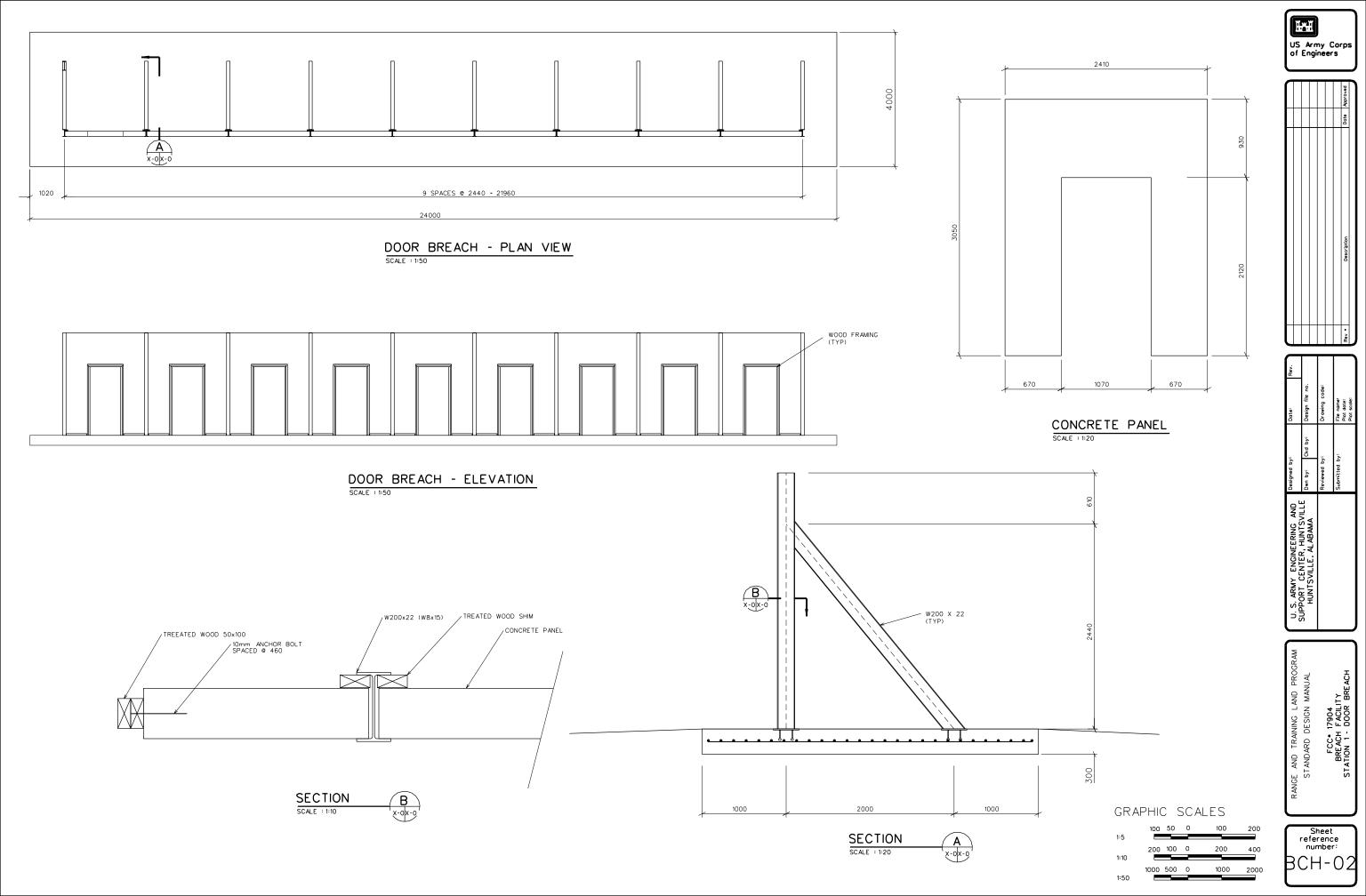
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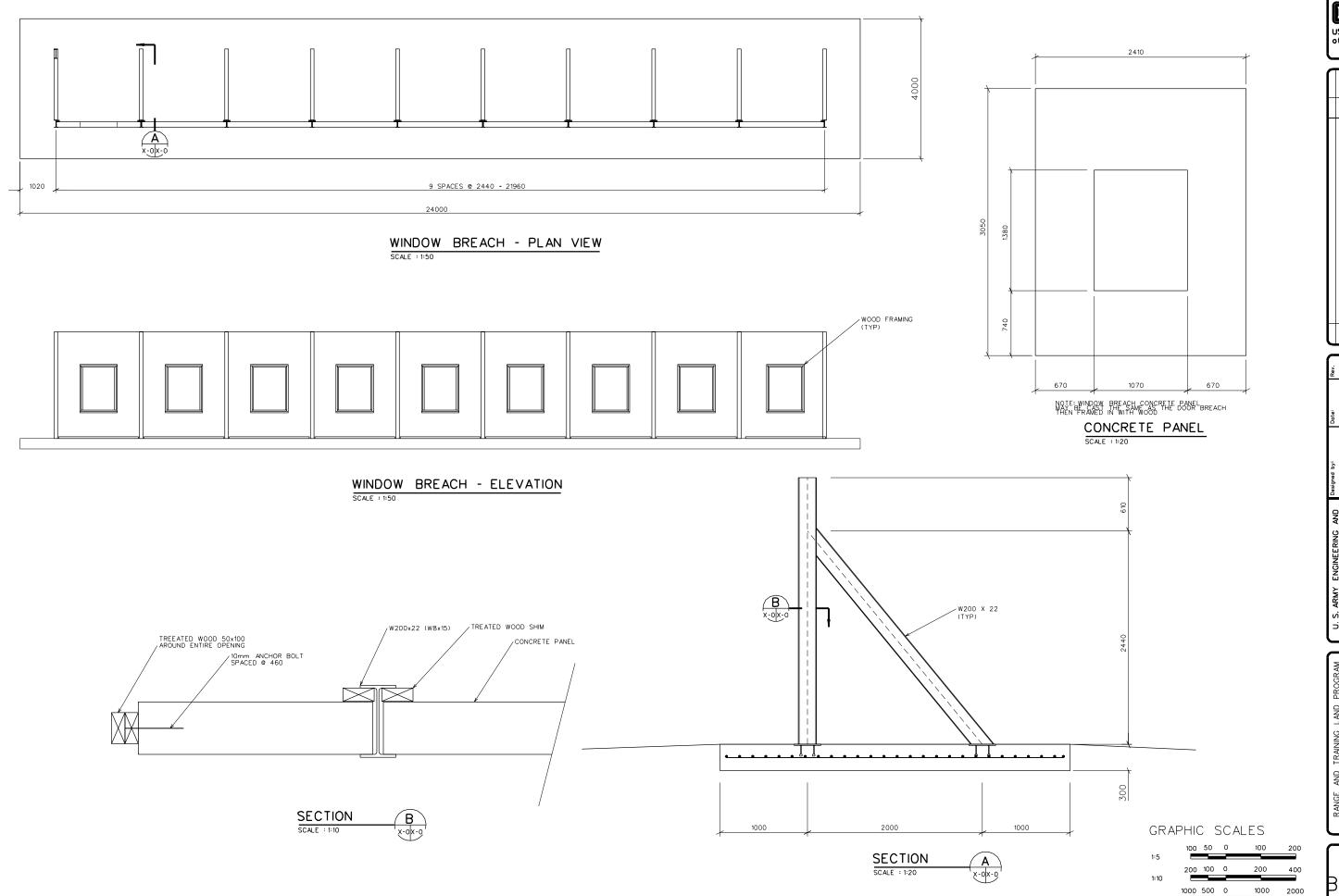
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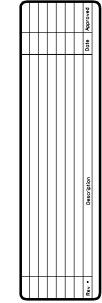
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FCC• 17904 BREACH FACILITY SITE LAYOUT



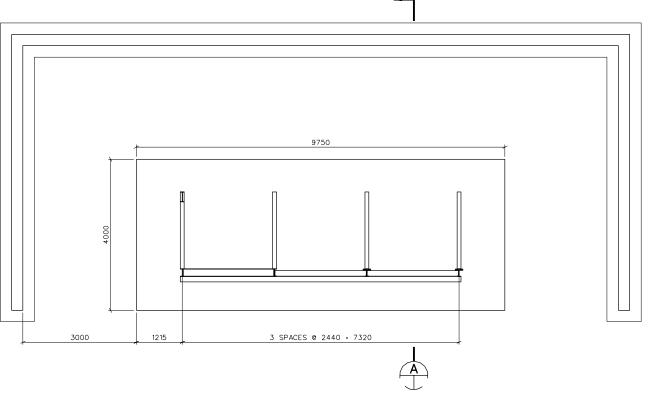






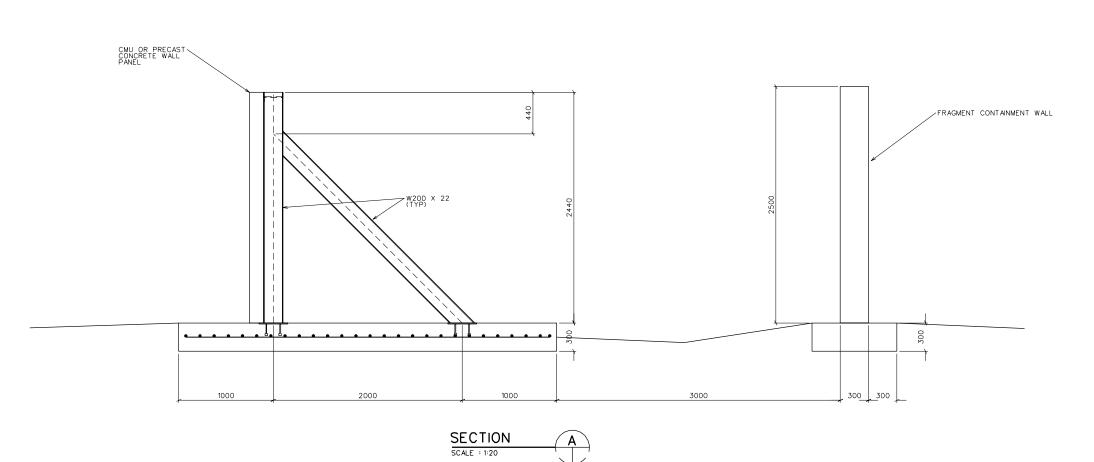
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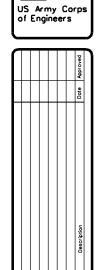
STANDARD DESIGN MANUAL
FCC- 17904
BREACH FACILITY
STATION 1- WINDOW RDEACH



DOOR BREACH - PLAN VIEW

SCALE : 1:50





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